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A subsidiary of Occidental Petroleum

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January 29, 2016

Mr. Brian Sadowski
NYSDEC
270 Michigan Avenue
Buffalo, NY 14203-2999
Address

Dear Mr. Sadowski:

Re: 2015 Site Management Periodic Review Report - Love Canal Site

On behalf of Occidental Chemical Corporation, and in compliance with the Love Canal Operation and Maintenance Manual, GHD Services Inc. is submitting one electronic copy of the 2015 Site Management Periodic Review Report - Love Canal Site.

An electronic copy of the full text, figures, tables, and appendices associated with this report are included in the electronic Adobe Acrobat PDF files. If you have any questions, please do not hesitate to call.

Very truly yours,

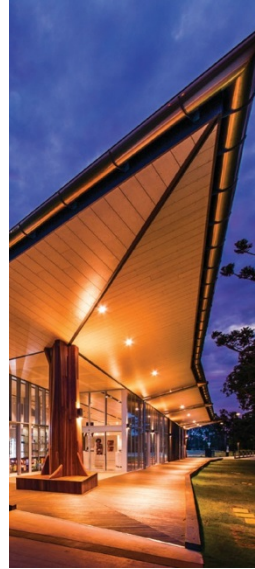
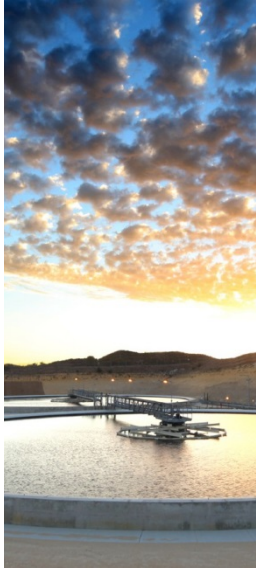
GLENN SPRINGS HOLDINGS, INC.

Joe Branch
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JB/eew/10

Encl.

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2015 Site Management Periodic Review Report Love Canal Site

NYSDEC Site No. 932020

Niagara Falls, New York

Prepared For Glenn Springs Holdings, Inc.

January 29, 2016

2055 Niagara Falls Boulevard Niagara Falls New York 14304

009954 | Report No 31

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1. Introduction

Operation of the Love Canal Site (Site) was transferred from the New York State Department of Environmental Conservation (NYSDEC) to Occidental Chemical Corporation (OCC) in April 1995. Effective July 1, 1998, Site responsibility was assigned by OCC to Glenn Springs Holdings, Inc. (GSH), an affiliate of OCC. Since October 1, 2008, GHD Services, Inc. (GHD), formerly Conestoga-Rovers & Associates (CRA), has performed operation, maintenance, monitoring, and reporting activities for the Site under contract to and direct management of GSH.

This report is the twenty first annual report prepared by or on behalf of OCC and covers operation, maintenance, and monitoring activities for 2015. The completed 2015 NYSDEC Institutional and Engineering Controls Certification Form is included as Appendix A.

2. Remedial Systems

Operation of remedial systems to prevent the off-Site migration of chemical contaminants from the Site began in October 1978 with the installation of a barrier drain along the east and west sides of the South Sector of the Canal. The barrier drain was later extended to completely encompass the entire area of disposed waste within the Central and North Sectors of the Canal. The barrier drain, designed to intercept the shallow overburden lateral groundwater flow, consists of a trench approximately 4 feet wide that varies in depth from approximately 12 to 25 feet deep depending on location at the Site. Installed within the trench is a perforated vitrified clay tile pipe. The pipe is 6-inch diameter in the Central and North Sectors and both 6-inch and 8-inch diameter in the South Sector. The pipe is centered in a minimum of 2 feet of uniformly sized gravel, which is overlain with coarse sand extending to the existing ground surface present at the time of construction. Thirty-two lateral trenches, approximately 12 to 19 feet deep, filled with a minimum of 2 feet of gravel and overlain with sand similar to the barrier drain, were dug perpendicular to the barrier drain in the direction of the Canal. The majority of these laterals extend into the disposed waste. The barrier drain is graded from two highpoints, one in the southeast corner and the other in the northeast corner, toward a series of manholes which drain to four pump chambers (PC-1A/PC-2A in the North/Central Sector and PC-1/PC-2 in the South Sector) where the leachate is collected. The collected leachate is pumped from the four pump chambers to two other pump chambers connected to underground holding tanks (PC-3A in the North/Central Sector and PC-3 in the South Sector) where it is temporarily stored. From that point, the leachate is pumped to the on-Site Love Canal Treatment Facility (LCTF) where it is treated and discharged to the Niagara Falls Water Board (NFWB) sanitary sewer system under the Site's Significant Industrial User (SIU) Permit #44. The locations of the remedial system components are illustrated on the Site Plan presented as Figure 2.1.

The installation of a 22-acre clay cap over the entire former Canal area was completed in October 1980 following completion of the barrier drain collection system. The purpose of the cap is to reduce infiltration of precipitation. The thickness of the clay cap is a minimum of 3 feet. In 1985, a second (40-acre) cap was installed over the initial clay cap area. The newer cap consists of a 40-mil high density polyethylene (HDPE) liner covered by 18 inches of clean soil and vegetation.

In March 1999, the adjacent 102nd Street Landfill Site leachate collection system was connected to the Love Canal Site to facilitate the transfer of leachate from the 102nd Street landfill into Love Canal's pump chamber PC-3 for treatment at the LCTF.

2.1 Operations of the Barrier Drain and Collection System

2.1.1 Barrier Drain System

The barrier drain system continues to function as designed, with no major maintenance required during 2015. Semiannual inspections of the barrier drain components, including manholes and pump chambers, are required by the Site's NYSDEC-approved Operation and Maintenance (O&M) Manual (CRA, revised March 2015). Inspections of the barrier drain manholes were conducted on June 23 and October 7, 2015, and inspections of the barrier drain pump chambers were carried out on June 22 and October 8, 2015. The visual inspections showed that the manhole flumes were flowing freely and required no further maintenance. During both inspection events, buildup of sludge was noted at MH-6A, MH-6B and MH-6C. However, the buildup was insufficient to warrant cleaning, as it did not impede flow through the manhole. The visual inspections were documented on the 2015 Semiannual Inspection Forms, which are presented in Appendix B. The manhole locations are presented on Figure 2.2.

2.1.2 Pumping System

The barrier drain system consists of two sectors, the Northern/Central and the Southern. Leachate from the Northern/Central Sector drains to pump chambers PC-1A and PC-2A where it is pumped to pump chamber PC-3A, while leachate from the Southern Sector is pumped from pump chambers PC-1 and PC-2 to the underground storage tank connected to pump chamber PC-3. From pump chambers PC-3 and PC-3A, the leachate is then transferred through a below ground metering chamber outside the LCTF on the southeast corner of the building and then into the LCTF for treatment. The pumping system was operational and functioned as designed throughout 2015.

2.1.3 102nd Street Landfill Forcemain

The leachate forcemain construction was completed in March 1999 and is used for the transfer of leachate from the 102nd Street Landfill to the LCTF. The forcemain begins at the northwest corner of the 102nd Street Landfill and extends northward beneath River Road, LaSalle Expressway, and Frontier Avenue to pump chamber PC-3 at the Site. During 2015, the leachate collection system at 102nd Street pumped 199,893 gallons of leachate to the LCTF.

3. Groundwater Treatment and Monitoring

3.1 Groundwater Treatment

3.1.1 Treatment System

The LCTF consists of clarification, bag filtration, and carbon treatment prior to discharge to the NFWB sanitary sewer system. A process schematic depicting the layout of the treatment system is presented as Figure 3.1.

Treated water from the Site is discharged to the NFWB sanitary sewer system as authorized by the Site's SIU Permit #44. In 2010, the NFWB reissued Permit #44 to OCC for an additional 5 years. The permit was valid from January 8, 2010 through January 8, 2015. A renewed permit was issued on January 5, 2015, and is valid from January 9, 2015 to January 9, 2020. A copy of the renewed permit is included as Appendix C.

3.1.2 Effluent Discharge

The LCTF discharged to the NFWB sanitary sewer system 172 days in 2015.

Under high stormwater flow events, the NFWB periodically requires that the LCTF temporarily cease discharging to the sewer system. During an event of this type, the barrier drain pumping system will continue to operate and maintain a protective inward hydraulic gradient to capture leachate. The NFWB did not require the LCTF to temporarily cease discharging during 2015.

In 2015, the LCTF processed a total of 2,889,343 gallons of leachate. This total was comprised of 2,689,450 gallons of leachate from the Site and 199,893 gallons of leachate from the 102nd Street Landfill.

Table 3.1 shows the monthly total and average treated groundwater quantities from 2000 through 2015.

3.1.3 Effluent Sampling

Sampling of the effluent discharged to the NFWB sanitary sewer system occurred quarterly as required under the Site's SIU Discharge Permit #44. In accordance with the SIU permit, the quarterly monitoring periods for 2015 were as follows:

Quarter 1: December 1 – February 28

Quarter 2: March 1 – May 31

Quarter 3: June 1 – August 31

Quarter 4: September 1 – November 30

The quarterly effluent sampling for 2015 was performed on December 11, 2014, March 11, June 2, and September 1, 2015. The sample results were submitted to the NFWB quarterly as required by the permit. The results for each event were in compliance with the requirements of the Site's SIU permit.

3.1.4 Precipitation

In 2015, precipitation in the Niagara Falls region totaled 24.99 inches (Niagara Falls International Airport, National Climatic Data Center). Table 3.1 provides historical regional precipitation data from 2000 through 2015.

3.2 Groundwater Monitoring

Groundwater monitoring consists of both chemical monitoring to determine groundwater quality and hydraulic monitoring to demonstrate that the barrier drain is creating hydraulic containment. Monitoring and analytical protocols for the Site's groundwater monitoring program have been established and are set forth in the "Sampling Manual, Love Canal Site, Long-Term Groundwater Monitoring Program" (LTGMP), revised June 2013.

The monitoring results for 2015 are presented in the following sections.

3.2.1 Groundwater Quality

Chemical monitoring is performed annually by sampling select overburden and bedrock monitoring wells at the Site. On March 25, 2009, the NYSDEC communicated via email to GSH that the NYSDEC would no longer be providing an annual well sampling list for chemical monitoring and directed GSH to use the wells sampled in 2007 and 2008 for all future sampling events. Subsequent discussions between GSH and the NYSDEC regarding the well sampling list led to this decision being documented in an August 5, 2010 memo titled "Love Canal Annual Groundwater Sampling Schedule", presented in Appendix D.

It should be noted that overburden well 3151 is included on the Appendix D list; however, this well was noted in 2007 as "Well no longer available – destroyed" and could not be located. Therefore, this well has not been sampled since 2007. In addition, overburden well 10178A and bedrock wells MW-01 and MW-02 were added to the annual sampling program in 2011.

The 2015 annual groundwater chemical monitoring event was performed between June 17 and July 2, 2015. As part of the annual groundwater chemical monitoring in 2015, 40 observation wells were sampled. As part of the LTGMP, the NYSDEC has the option of collecting split samples during the annual event and having those samples analyzed independently to verify data. No split samples were collected by NYSDEC during the 2015 annual sampling event.

Between June 17 and July 2, 2015, groundwater samples were collected from 20 overburden and 20 bedrock observation wells in support of the LTGMP. The samples were submitted to TestAmerica Laboratories, Inc. (TA), located in Pittsburgh, Pennsylvania. TA is a New York State Department of Health (NYSDOH) approved laboratory certified under the National Environmental Laboratory Approval Program (NELAP). The samples were analyzed for Site-specific volatiles, semi-volatiles, pesticides, and polychlorinated biphenyls (PCBs). The raw data laboratory package is presented in Appendix E. A GHD chemist performed the analytical Quality Assurance/Quality Control (QA/QC) review and data validation. The QA/QC report for this event is presented in Appendix F.

Figure 3.2 identifies the wells sampled and their locations. The Love Canal Annual Groundwater Sampling Schedule is presented in Appendix D. Table 3.2 provides a summary of the overburden wells that were sampled, the analytical data, and a summation of the number of compounds found at or above the detection limits in each well. Table 3.3 provides a summary of the bedrock wells that were sampled, the analytical data, and a summation of the number of compounds found at or above the detection limits in each well.

3.2.1.1 Overburden Monitoring Wells

The 2015 groundwater analytical results for the overburden monitoring wells (Table 3.2) are consistent with previous long-term monitoring analytical results. The analytical results were non-detect or were detected at low levels consistent with concentrations detected during previous monitoring events (with the exception of groundwater from well 10135, which is installed in an area of known Site impacts).

Historically, well 10135 has had the most detected compounds and the highest concentrations. This well is located in the southwestern portion of the Site and within the fenced boundaries of the Site. Although located outside the barrier drain, well 10135 is within the influence of the barrier drain based on hydraulic monitoring conducted at adjacent nested piezometer string 1160. As stated in

the LTGMP, well 10135, located in an area of known contamination, is sampled to present a representative control well. In 2015, well 10135 had 22 compounds detected. Table 3.4 presents a summary of detected compounds.

3.2.1.2 Bedrock Monitoring Wells

The 2015 groundwater analytical results for the bedrock monitoring wells (Table 3.3) are consistent with previous long-term monitoring analytical results. Parameter concentrations were either non-detect or detected at low levels consistent with concentrations detected during previous monitoring events. In 2012, hexachlorobenzene was detected at monitoring well 10225A for the first time historically at a concentration of 3.6 micrograms per liter ($\mu\text{g/L}$). A concentration of 3.6 $\mu\text{g/L}$ is within the historical non-detect range of 1.9 U $\mu\text{g/L}$ to 10 U $\mu\text{g/L}$. In 2014, and again in 2015, hexachlorobenzene was non-detect at well 10225A (1.9 U $\mu\text{g/L}$ in 2014 and 9.6 U $\mu\text{g/L}$ in 2015). In addition, a review of the groundwater data for the adjacent bedrock wells 10225B and 10225C indicated non-detect results for hexachlorobenzene. Based on the data, the 2012 detection appears to be an anomalous data point and does not warrant additional evaluation. Well 10225A will continue to be monitored annually for groundwater quality in accordance with the NYSDEC-approved LTGMP. Table 3.4 presents a summary of detected compounds.

3.2.1.3 Historical Compound Detections

Table 3.5 presents a summary of detected compounds of four long-term monitoring wells, including three bedrock wells and one overburden well (bedrock wells 10210A, 10210B, and 10210C, and overburden well 10135) from 1990 to 2015. The data from these four wells are presented because they have the most consistent historical record of compound detections compared to the other overburden and bedrock wells. The data from the additional Site wells not presented in Table 3.5 are typically non-detect or demonstrate sporadic low level detections and, therefore, do not present useful data in regards to a discussion of historical analytical trends at the Site. An evaluation of the 2015 sampling data for the four wells mentioned above shows that the compounds detected in 2015 are present at sporadic low level concentrations or concentrations consistent with historical trends.

3.2.2 Hydraulic Containment

Hydraulic monitoring consists of water level measurements conducted quarterly from six nested piezometer strings (1140, 1150, 1160, 1170, 1180, and 1190) per the NYSDEC-approved LTGMP, as well as water level measurements collected from three wells (7161, 9130, and 9140) in June 2015 as requested by the NYSDEC. In 2015, water levels were measured in March, June, September, and December. These water level data are presented in Tables 3.6A to 3.6F. The wells on the tables are ordered from left to right on the table, beginning with the well furthest from the outside of the barrier drain to the well inside the area enclosed by the barrier drain. Figures 3.3 to 3.8 show the overburden groundwater flow conditions for June 2015 at the six nested piezometers string locations.

A review of the piezometer string groundwater elevation data from the remaining three quarters (March, September, and December 2015) demonstrates that the data from those monitoring periods are consistent with the June 2015 data.

In addition to the above-mentioned information, a groundwater contour figure was prepared using the June 2015 water levels from the six nested piezometer strings and three additional wells (7161,

9130, and 9140), as requested by NYSDEC. The June 2015 groundwater contour figure is presented as Figure 3.9.

The groundwater contour figure and Tables 3.6A to 3.6F illustrate that there is a minimum of 3.42 feet of inward gradient outside of the barrier drain at each of the six nested piezometer strings. The term "feet of inward gradient" means the minimum difference in groundwater elevation between the wells on the outside of the barrier drain and the water level within the barrier drain, with the water level within the barrier drain representing the lowest water level elevation. This demonstrates that groundwater on the outside of the barrier drain (off-Site groundwater) is flowing toward and downward into the barrier drain. Based on the water level data from the six nested piezometer strings, an inward gradient can be inferred to exist around the collection drain system, demonstrating that the horizontal groundwater flow direction outside of the barrier drain is towards the barrier drain. A review of Figure 3.9 shows that groundwater flow on the inside of the barrier drain is also towards the barrier drain. Therefore, the barrier drain and lateral trenches are capturing leachate from the landfill area and a portion of groundwater outside the barrier drain, thereby preventing off-Site migration of chemicals and preventing off-Site groundwater from migrating into the landfill area. Monitoring will continue during 2016 as per the NYSDEC-approved LTGMP.

3.2.3 Well Maintenance

The 2015 well inspections identified the need for routine maintenance on several wells at the Site. This maintenance was conducted during the summer and fall of 2015 and included the following:

- J-plugs were replaced at two wells due to normal wear
- A new lock was added to one well (the old lock would not lock and unlock easily)
- Additional minor maintenance work was required at several wells, including painting well risers, replacement of well caps, etc.

3.2.4 Summary of Treatment and Monitoring Results

The volume of effluent discharge from the LCTF decreased from 3,689,013 gallons in 2014 to 2,889,343 in 2015, a number consistent with volumes from previous years with similar precipitation levels. Quarterly sampling and analysis indicated that all chemistry detected in the effluent samples for each event was either non-detect or present at very low levels within historical ranges and well below Site's SIU Discharge Permit #44 discharge limits.

The inward hydraulic gradient observed at each of the six nested piezometer strings demonstrates that the barrier drain is effectively capturing leachate from the Site and preventing off-Site migration of chemicals. The analytical results from the monitoring wells sampled indicate that compounds were either not detected, or were detected at low levels below or consistent with concentrations from previous years (with the exception of groundwater from well 10135, discussed in Section 3.2.2), further illustrating containment.

The presence of an overall inward hydraulic gradient towards the barrier drain and a review of groundwater quality for the groundwater monitoring wells demonstrate overall Site containment.

4. Activities

Summaries of normal activities and repairs performed in 2015 are presented below.

4.1 Process Activities

Process activities that occurred during the year included the following:

- Removal and disposal of hazardous waste
- Cleaning of all pump chambers
- Cleaning of all storage tanks
- Cleaning of sludge from clarifier
- Cleaning of sludge from PC-3A and all chambers
- Calibration of PC-2A, PC-3A and PC-3 level indicators
- Repair of PC-3A and PC-3B pump alarms

4.2 Non-Process Activities

Non-process activities that occurred during the year included the following:

- Preventative maintenance
- Repair of water line insulation in drum barn
- Cleaned drum barn floor and trench
- Inspection and repair backflow preventers
- Repair of the roof on the administration and process buildings
- Landscaping maintenance including grass cutting and tree and flower bed maintenance
- Heating and cooling system maintenance

4.3 Community Outreach

Community Outreach programs have included such activities as beautification of the area surrounding the Site and tours of the facility.

4.3.1 Beautification

The following beautification activities were conducted at Love Canal in 2015:

- Maintenance and landscaping of the Site and surrounding areas
- Maintenance of flower beds and shrubs along Colvin Boulevard, 95th Street, and Frontier Avenue
- Cleanup of discarded debris along fence line

4.3.2 Tours

Tours of the facility have been given throughout the years to representatives of various environmental agencies (domestic and foreign) and educational groups. The tours include an informational orientation, accompanied with visual aids, followed by a guided tour of the treatment facility and landfill. No tours were given in 2015.

4.3.3 Communications

All required reports were prepared and submitted to various agencies throughout the year. Reports included the 2014 Annual Hazardous Waste Report to the NYSDEC, the 2014 Water Withdrawal Reporting Form to the NYSDEC, the 2014 Periodic Review Report (formerly titled the Annual Operations and Monitoring Report) to various agencies, quarterly SIU analytical reports to the NFWB and NYSDEC, and monthly SIU reports to the NFWB.

The Love Canal Annual Newsletter for 2014 was issued to surrounding citizens and agencies in July 2015. The report summarizes items such as the amount of groundwater treated on Site and then discharged to NFWB's sanitary sewer system, maintenance activities, and other non-operational activities for the year.

4.4 Waste Generation

Throughout 2015, both hazardous and nonhazardous waste was generated from various activities and disposed of off Site in accordance with applicable laws and regulations.

The tracking of hazardous waste is performed by regulated hazardous waste manifests. A summary of the Site's annual hazardous waste generation is reported to the NYSDEC in the Annual Hazardous Waste Report. The Annual Hazardous Waste Report summarizes the quantities, transporters, and disposal methods.

A total of 16,980 pounds of hazardous waste was generated from various activities. The waste materials were then sent off Site for proper disposal in accordance with applicable laws and regulations. Wastes generated in 2015 were disposed of through incineration or landfill impoundment by Clean Harbors, LLC.

The hazardous waste disposed of in 2015 consisted of soil/debris and non-aqueous phase liquid (NAPL), broken down as follows:

- Soil/Debris: 3,780 pounds (consisting of personal protective equipment [PPE]) and spent filters from operations)
- NAPL Sludge: 13,200 pounds (collected from LCTF process)

4.5 Routine Operations, Inspections, and Monitoring

A daily inspection of the system operations was performed for each day in 2015 in accordance with the O&M Manual for the Love Canal Site, dated May 2014. Inspection records are available upon request.

Monthly inspections of the fire extinguishers and monthly checks of the carbon vapor phase vent for breakthrough were also completed in accordance with the O&M Manual. Inspection records are available upon request.

The NFWB performed an annual inspection of the LCTF on January 23, 2015 and performed verification sampling of the effluent discharge on February 19, 2015. The inspection and the annual effluent verification sampling concluded that the Site is being maintained and operated in accordance with the Site's SIU discharge permit and other local, State, and Federal requirements. The completed NFWB 2015 Inspection Form is included in Appendix G.

The United States Environmental Protection Agency (USEPA) conducted their 5-Year review inspection of the Site on July 11, 2013. Representatives of the USEPA, NYSDEC, Niagara County Department of Health, GSH, and CRA were in attendance. No issues were identified. The "Five-Year Review Report – Love Canal Superfund Site" was finalized on January 15, 2014. The report concluded:

"Based upon the results of this review, the U.S. Environmental Protection Agency concludes that the remedies implemented at this Site adequately control exposures of Site contaminants to human and environmental receptors to the extent necessary for the protection of human health and the environment. The continued operation and maintenance at the Site ensures that there are no site-related exposures of hazardous material to human or environmental receptors".

The NYSDEC conducted a Site inspection (landfill and treatment system) on July 2, 2015. No issues were identified and there were no requests for additional actions to be taken.

The NYSDEC conducted the annual RCRA inspection on November 24, 2015. No issues were identified and there were no requests for additional actions to be taken.

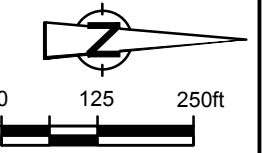
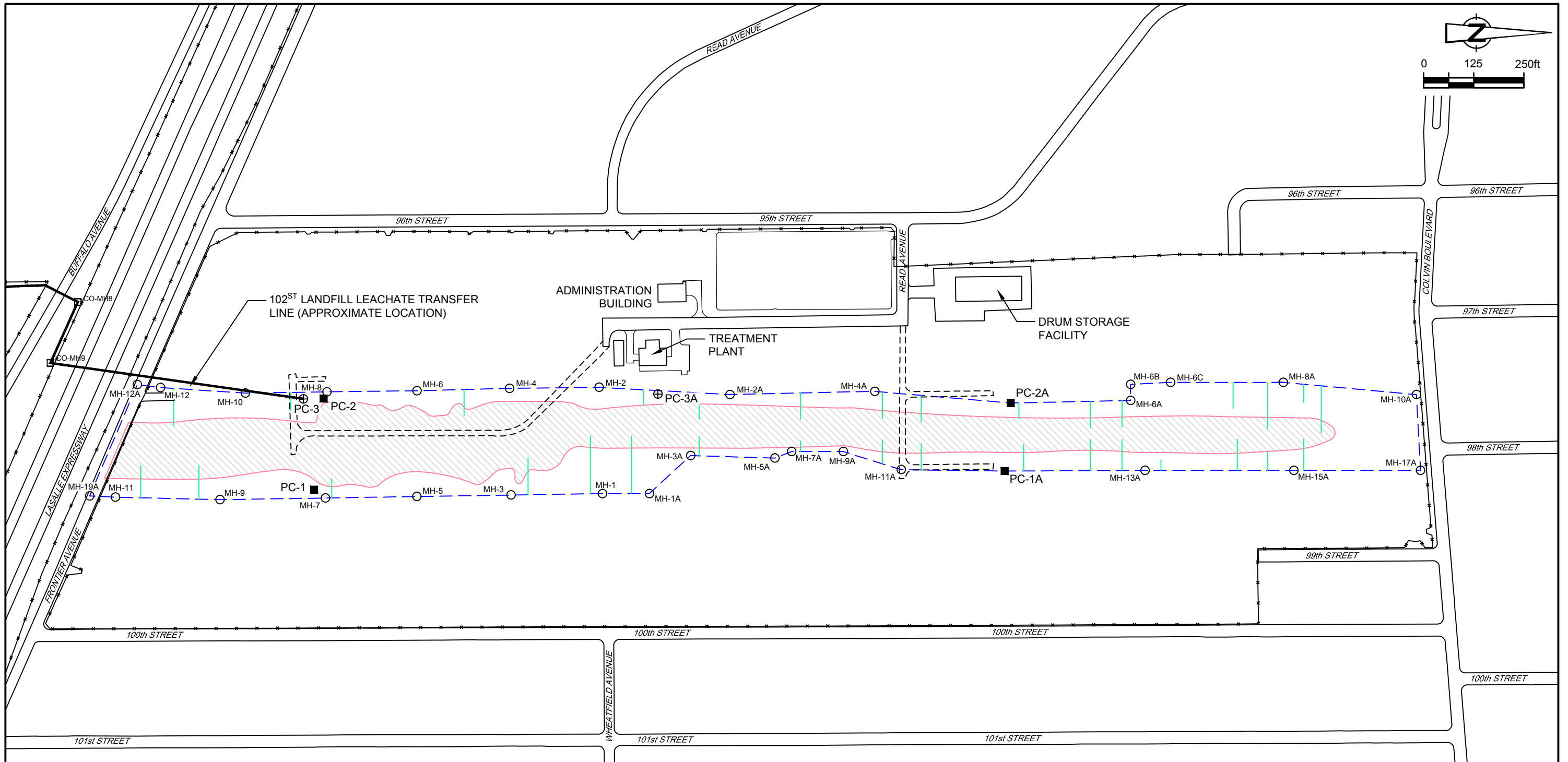
The backflow preventer system on the potable water supply lines was inspected and tested by CamTech Plumbing and Mechanical (CamTech) on March 23, 2015. CamTech is licensed and certified by the NFWB to perform the backflow preventer system inspections. All five backflow prevention devices were found to be operational with no maintenance required. A copy of the 2015 Test and Maintenance of Backflow Prevention Device Report for each device is presented in Appendix H.

The annual fire system inspection was conducted on July 16, 2015. No issues were identified.

5. Conclusion

The 2015 monitoring results show that there has been no significant change in chemical concentration conditions and that the barrier drain system is successfully capturing leachate from the Site and preventing off-Site migration of contamination. The barrier drain continues to create an inward hydraulic gradient and capture leachate from the Site, preventing off-Site migration of chemicals, as evidenced by the groundwater gradients depicted on Figures 3.3 to 3.9 and analytical data from observation wells around the perimeter of the Site. The collection system is functioning as designed based on groundwater monitoring results and third party inspections by the NYSDEC. The treatment system is functioning as designed based on inspections and sampling by the NFWB and sampling by GSH. Effluent quality is compliant with the Site's SIU discharge permit. There were 2,889,343 gallons of leachate collected, treated, and discharged from the Site, of which 2,689,450 gallons of leachate were collected from the Site, and the remaining 199,893 gallons were collected from the 102nd Street Site and pumped to the LCTF for treatment. Monitoring results continue to confirm that the remediation and containment system (i.e., the leachate collection and treatment system) is functioning properly.

Figures



LEGEND

- x—x— FENCE LINE
- - - - - BARRIER DRAIN
- LATERAL TRENCH
- MH-1 MANHOLE LOCATION

- PC-1 PUMP CHAMBER FOR LEACHATE COLLECTION
- ⊕ PC-3 PUMP CHAMBER / UNDERGROUND LEACHATE STORAGE TANK FOR LEACHATE COLLECTION AND TRANSFER
- CO-MH3 FORCEMAIN CLEAN OUT MANHOLE
- [Hatched Box] APPROXIMATE LIMITS OF DISPOSED WASTE

NOTE:
WELL 3151 IS UNABLE TO BE LOCATED
(ASSUMED TO BE PAVED OVER)

figure 2.2
MANHOLE LOCATIONS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



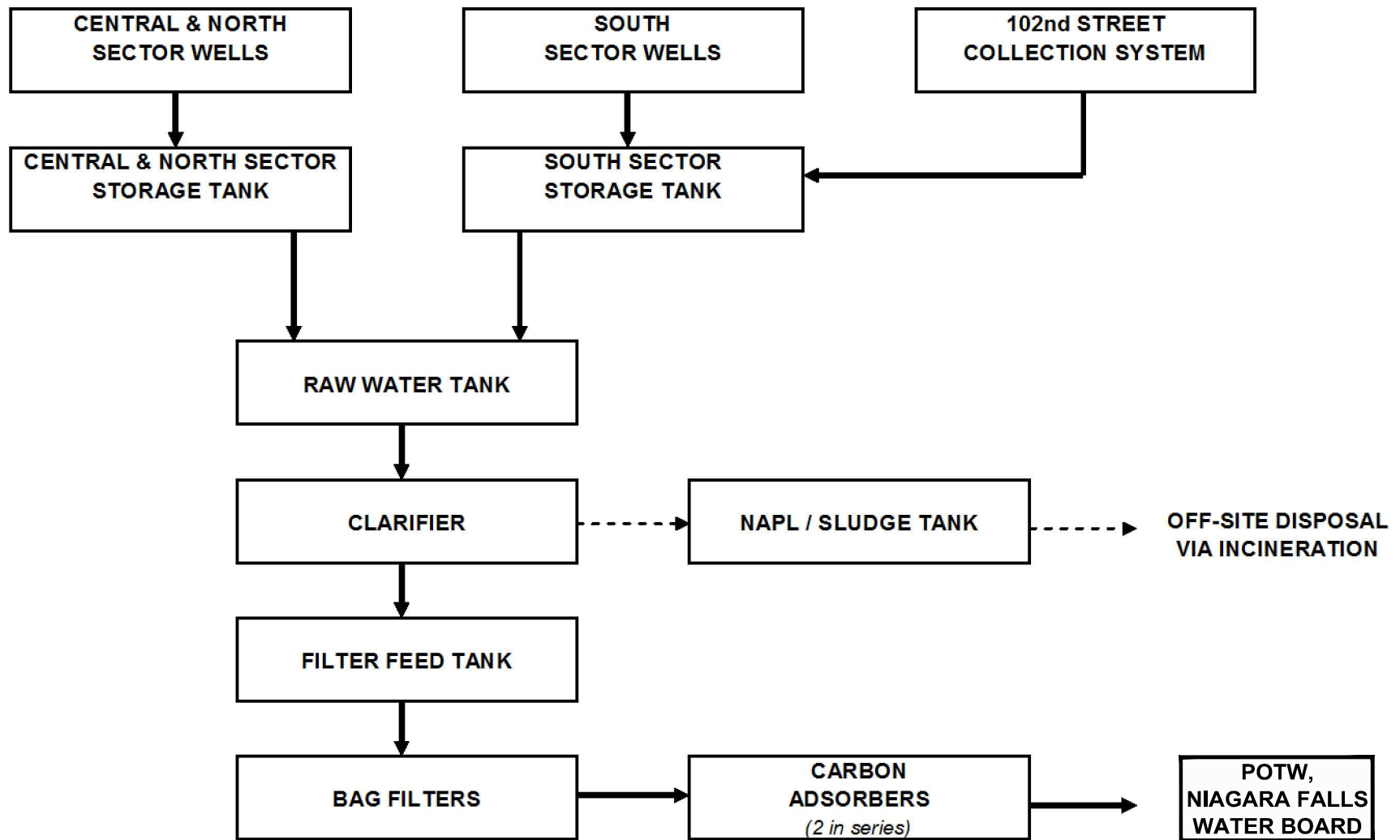
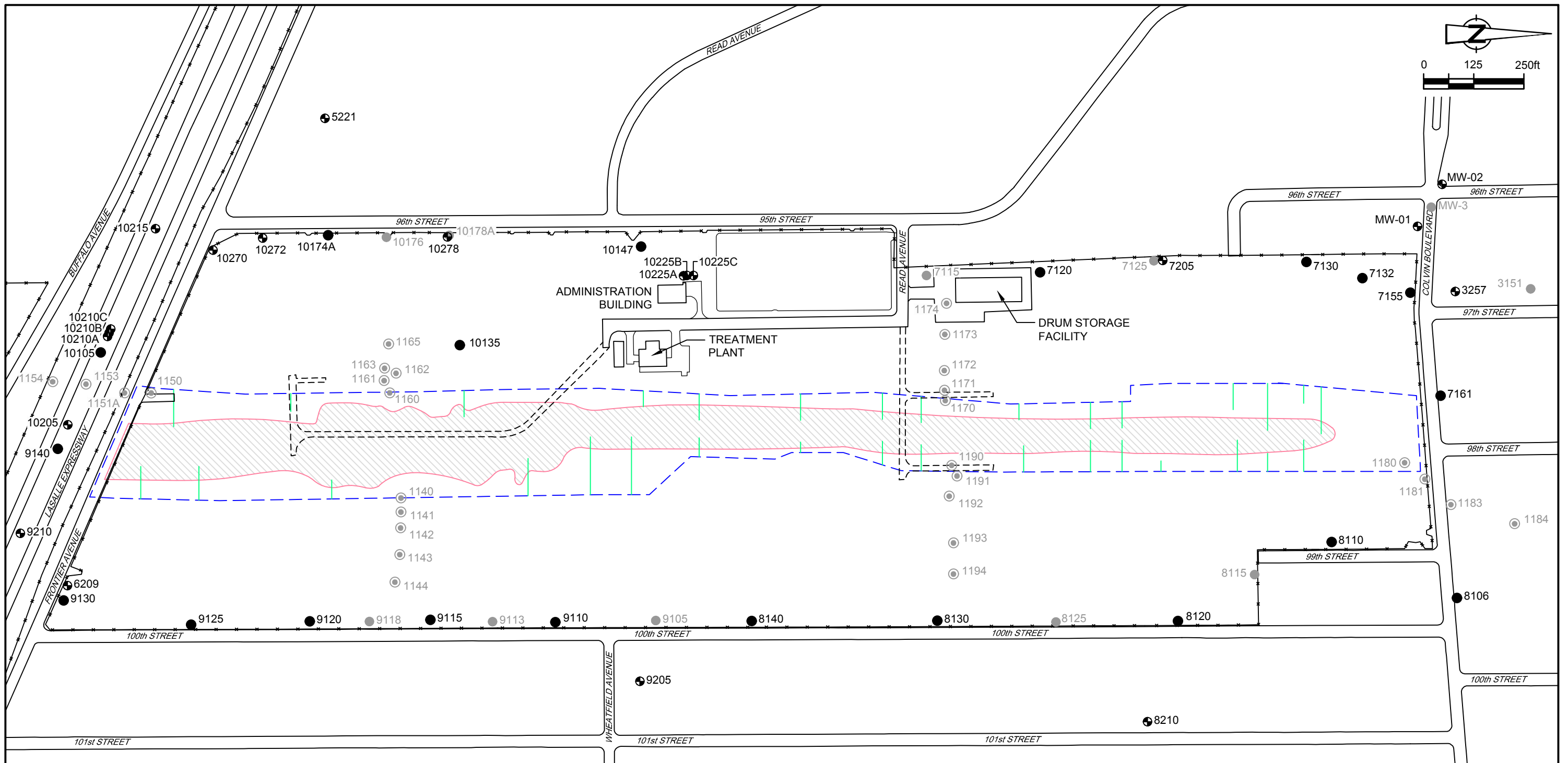


figure 3.1

PROCESS SCHEMATIC
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York





LEGEND

- x—x— FENCE LINE
- - - - - BARRIER DRAIN
- LATERAL TRENCH
- 7105 PIEZOMETER
- 9122 OVERBURDEN OBSERVATION WELL

- 5222 BEDROCK OBSERVATION WELL
- 9205 OVERBURDEN OBSERVATION WELL SAMPLED IN 2015
- 10270 BEDROCK OBSERVATION WELL SAMPLED IN 2015
- APPROXIMATE LIMITS OF DISPOSED WASTE

NOTE:
WELL 3151 IS UNABLE TO BE LOCATED
(ASSUMED TO BE PAVED OVER)



figure 3.2
2015 GROUNDWATER MONITORING LOCATIONS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

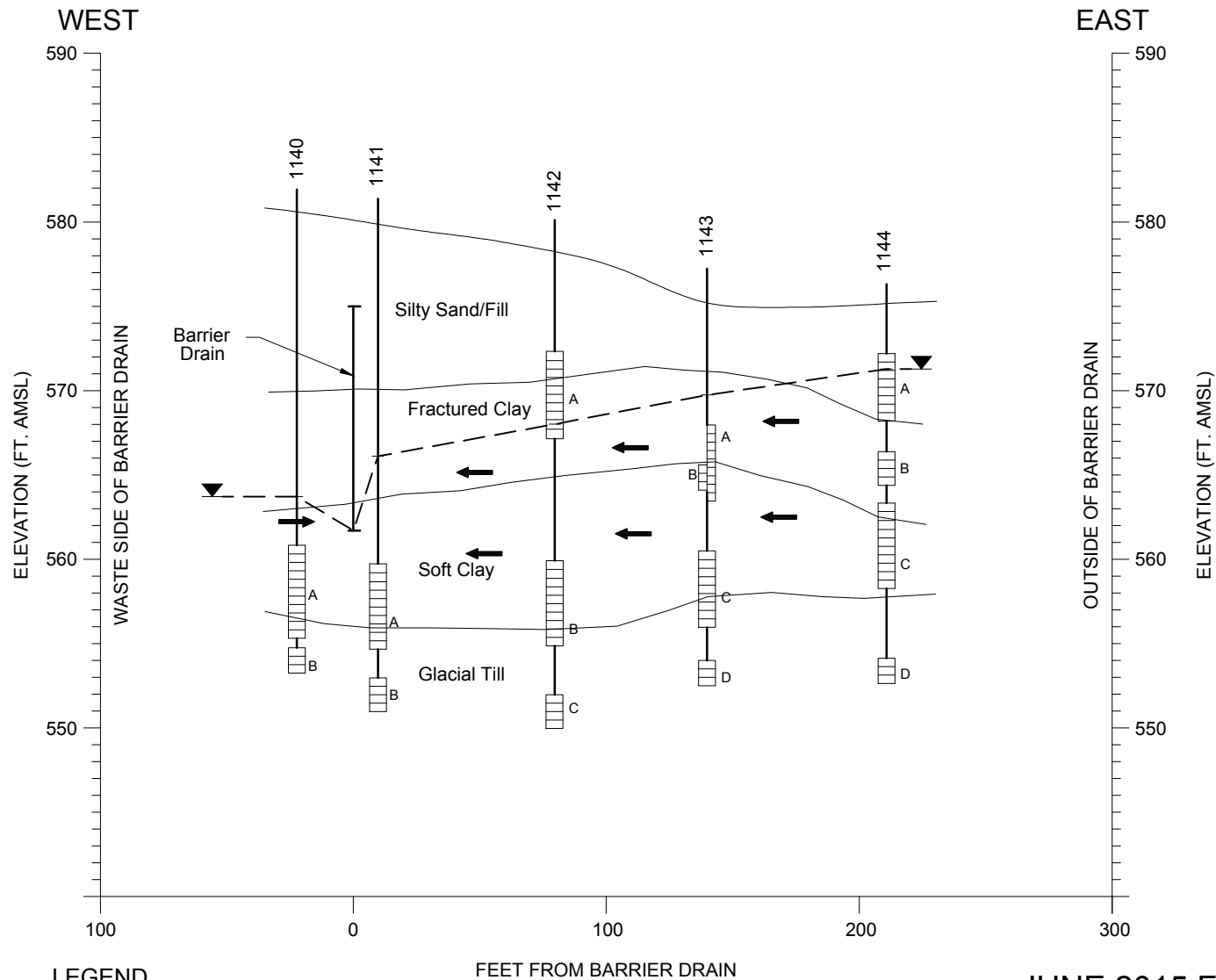


figure 3.3

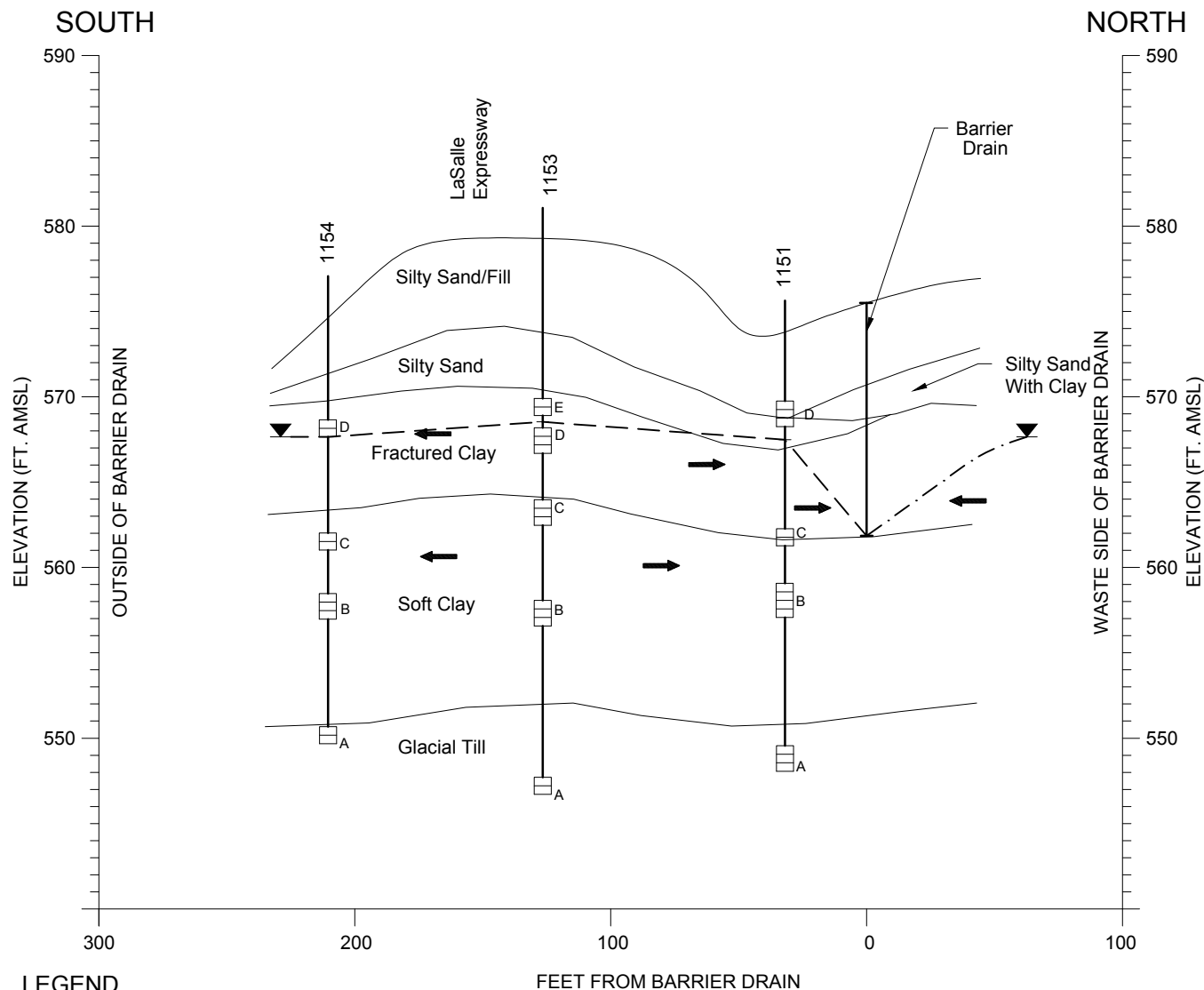
LEGEND

- A PIEZOMETER DESIGNATION
- GROUNDWATER LEVEL
- ➔ FLOW DIRECTION
- ▢ SCREENED INTERVAL

- NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR LOWERMOST MONITORED INTERVAL WITHIN SOFT CLAY MEDIUM
- (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

JUNE 2015 FLOW DIAGRAM
1140 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York





LEGEND

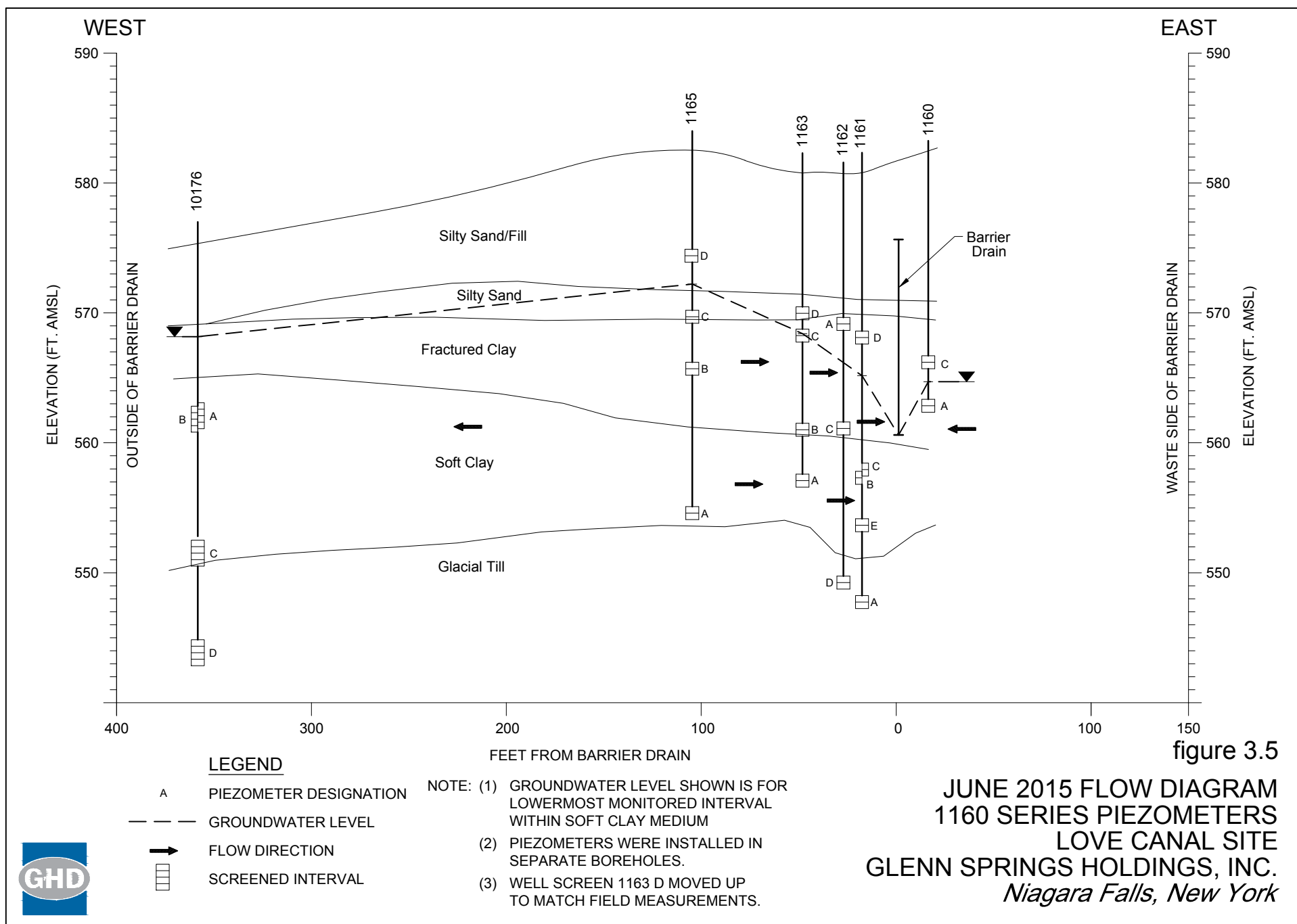
- A PIEZOMETER DESIGNATION
- — — GROUNDWATER LEVEL
- - - - - ESTIMATED GROUNDWATER LEVEL
- ➔ FLOW DIRECTION
- ☐ SCREENED INTERVAL

- NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR LOWERMOST MONITORED INTERVAL WITHIN SOFT CLAY MEDIUM
- (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

figure 3.4

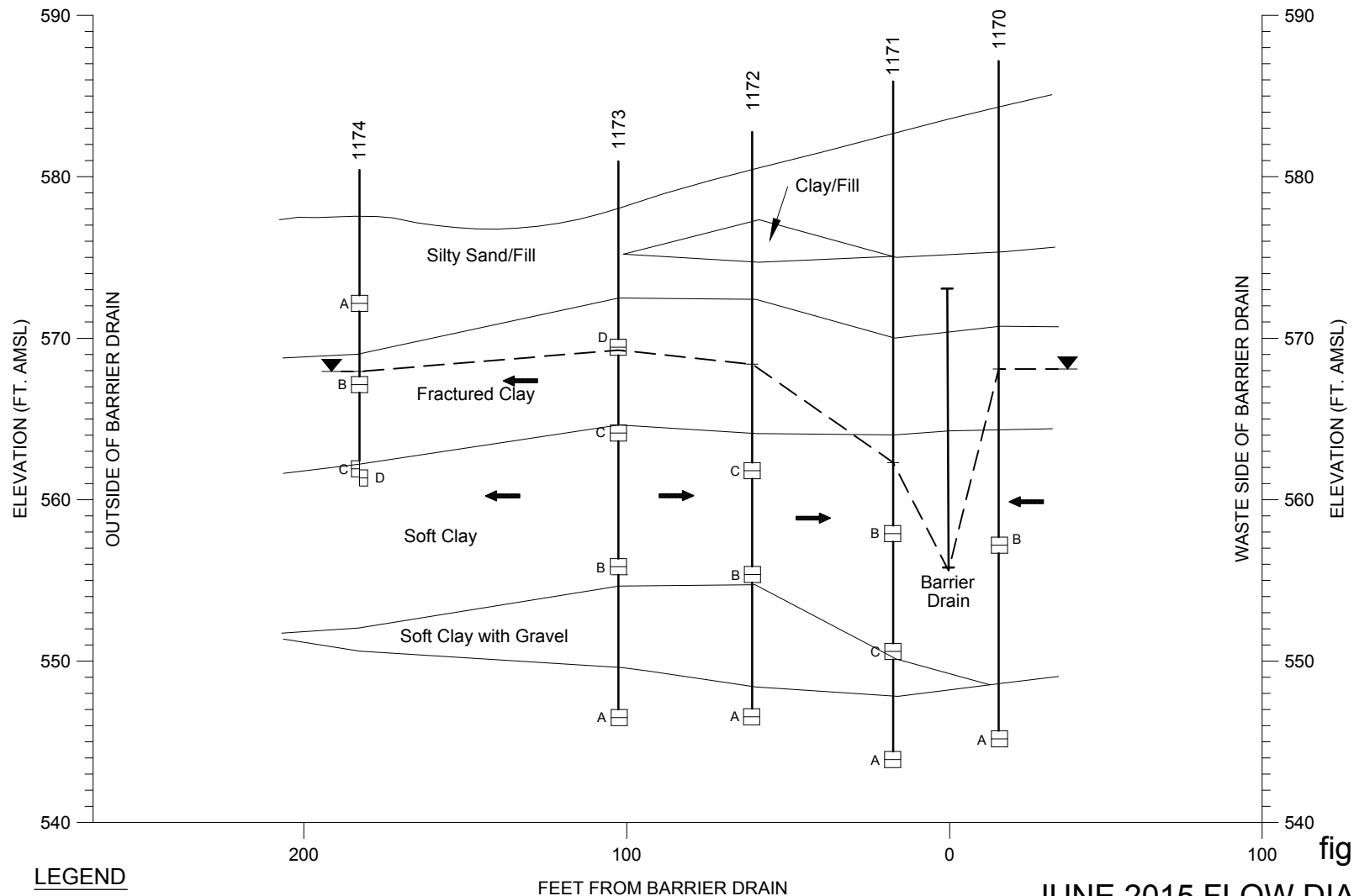
JUNE 2015 FLOW DIAGRAM
1150 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York





WEST

EAST



LEGEND

- A PIEZOMETER DESIGNATION
- GROUNDWATER LEVEL
- FLOW DIRECTION
- SCREENED INTERVAL

- NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR LOWERMOST MONITORED INTERVAL WITHIN SOFT CLAY MEDIUM
- (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

figure 3.6

JUNE 2015 FLOW DIAGRAM
1170 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



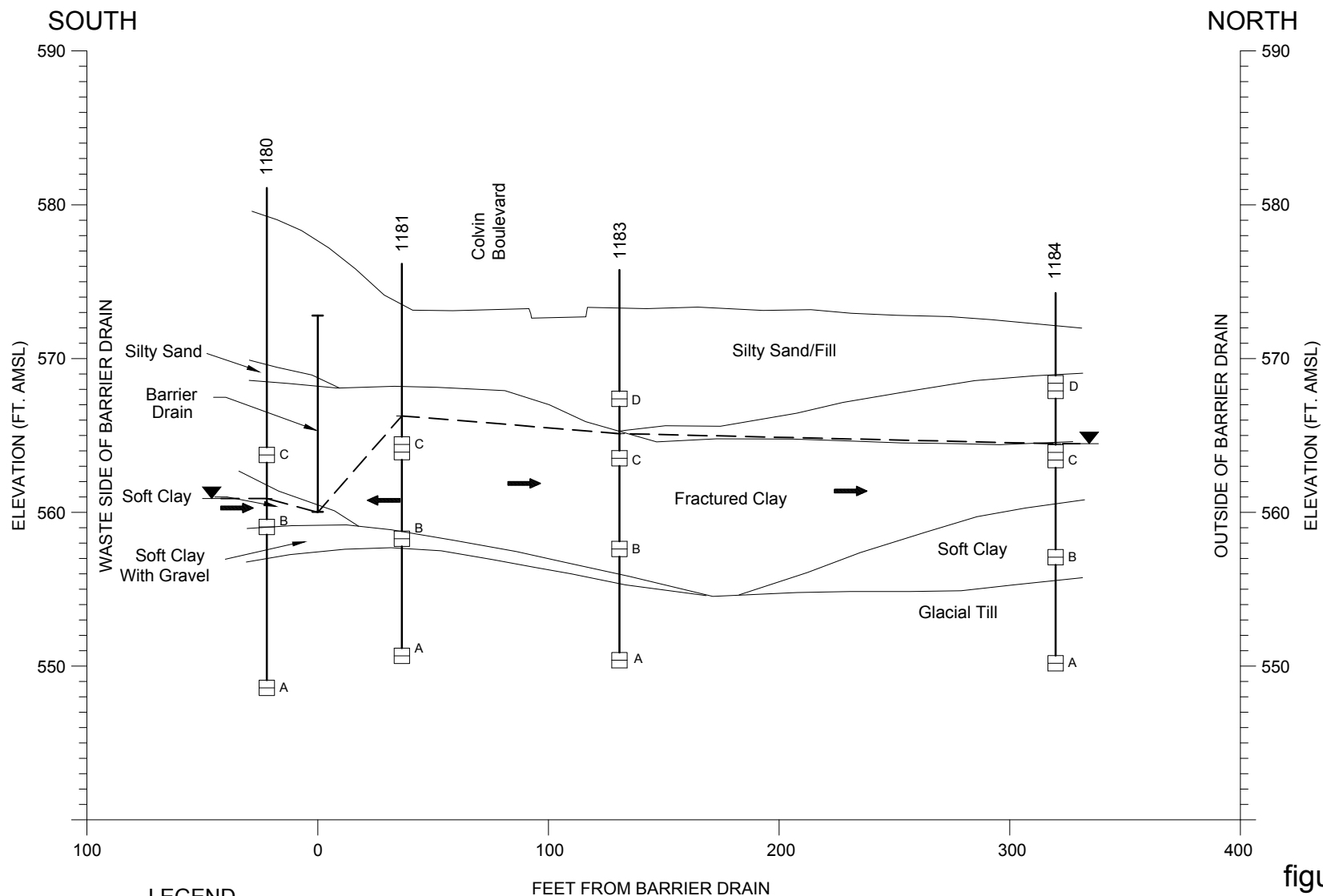


figure 3.7

- LEGEND**
- A PIEZOMETER DESIGNATION
 - GROUNDWATER LEVEL
 - FLOW DIRECTION
 - SCREENED INTERVAL

- NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR LOWERMOST MONITORED INTERVAL WITHIN SOFT CLAY MEDIUM
- (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

JUNE 2015 FLOW DIAGRAM
1180 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



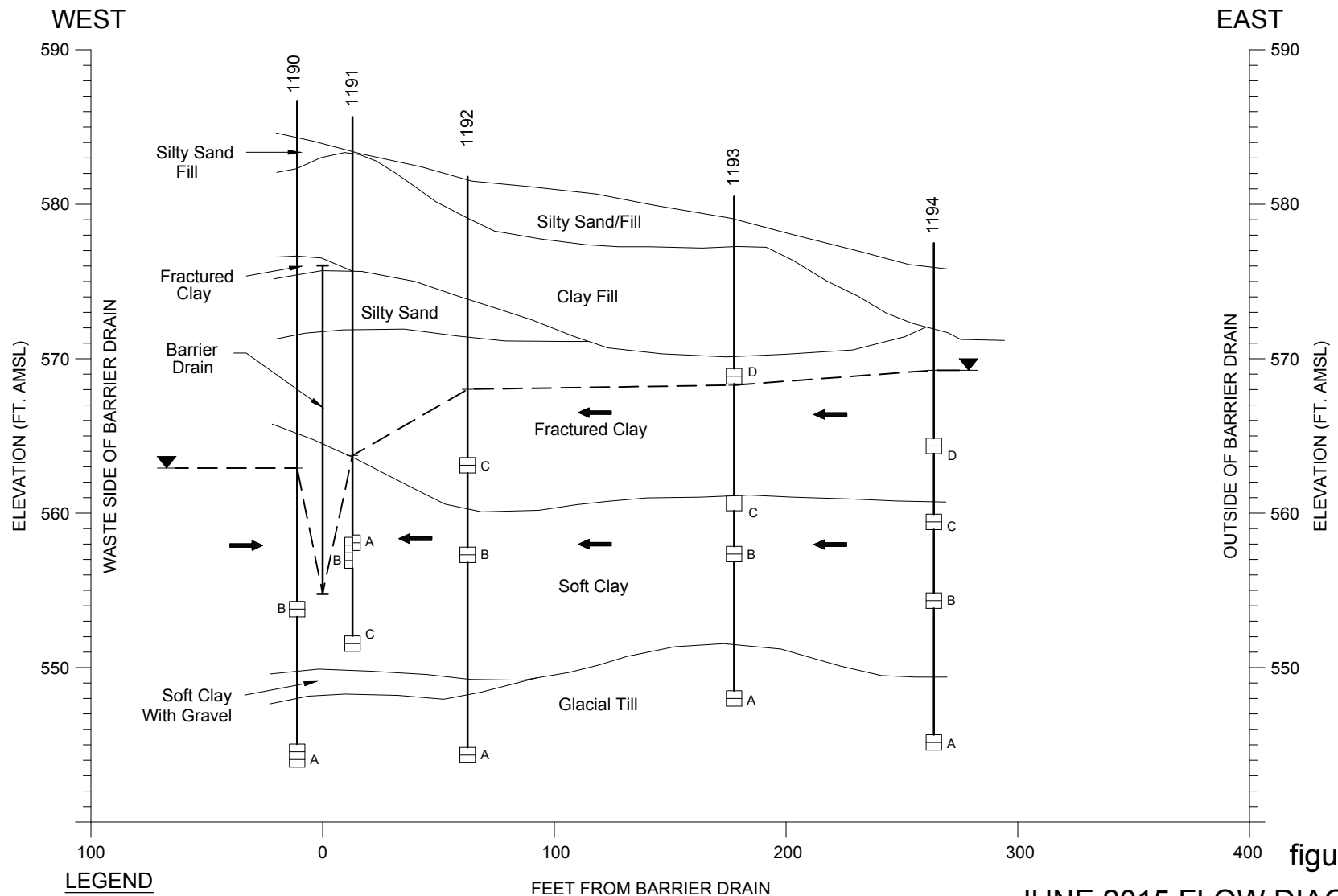
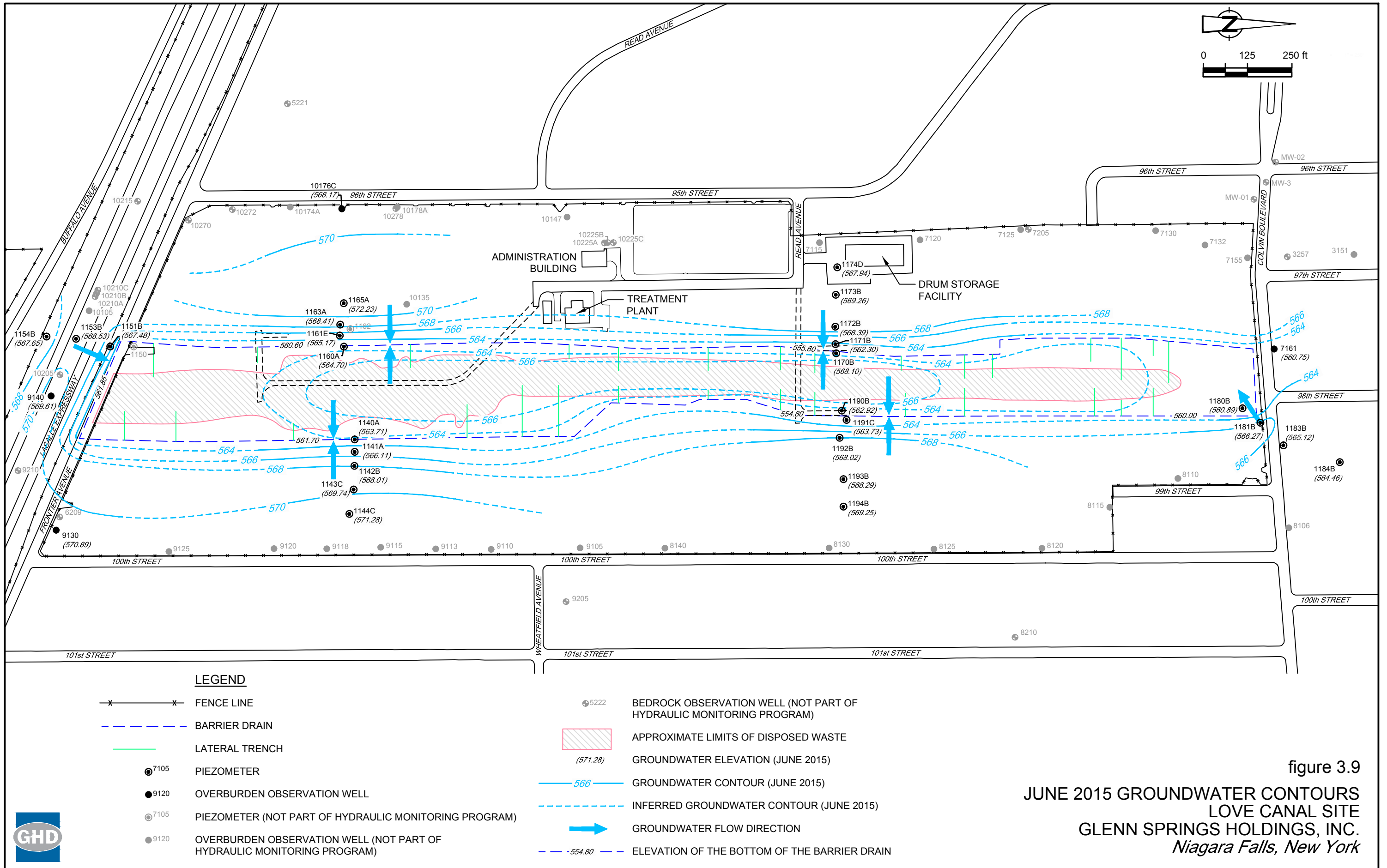


figure 3.8

JUNE 2015 FLOW DIAGRAM
1190 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York





Tables

Table 3.1
Monthly Volumes of Groundwater Treated
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
January	Gross	495,800	396,900	488,900	419,400	309,200	841,400	855,900	993,400	674,000	523,500	534,400	346,900	571,900	600,400	519,614	363,043
	Net (1) Days (2)	280,364 21	282,480 20	422,682 21	374,123 14	260,171 10	796,518 17	817,305 16	970,918 20	649,777 18	495,713 16	471,805 17	322,994 18	546,816 15	575,767 18	499,889 20	346,565 14
February	Gross	480,400	560,000	663,700	266,300	330,000	440,200	437,300	216,600	570,000	506,700	314,300	375,800	656,700	495,900	291,292	68,244
	Net (3) Days	368,492 21	468,863 19	608,116 20	231,049 13	291,082 9	401,137 11	405,124 9	174,776 7	539,772 16	485,869 13	276,643 10	349,712 19	634,167 16	478,434 19	277,226 15	55,548 16
March	Gross	505,500	616,400	364,900	721,500	1,038,400	698,900	436,800	582,500	570,500	606,900	550,100	1,003,700	384,500	488,000	388,937	658,775
	Net Days	290,501 23	493,476 21	316,696 21	667,337 17	986,332 21	667,105 13	402,047 13	560,237 16	550,518 12	582,109 18	526,021 17	978,000 21	363,378 16	467,083 20	375,154 17	642,149 20
April	Gross	675,600	352,300	689,700	432,800	800,400	805,300	184,800	447,200	602,000	414,900	498,200	676,400	334,400	533,800	786,808	575,949
	Net Days	547,926 20	262,946 20	629,683 20	380,745 16	767,982 17	769,514 14	155,028 6	420,133 14	574,359 12	377,080 16	466,778 15	652,656 11	316,188 18	516,478 22	768,257 20	561,287 17
May	Gross	473,300	311,200	589,500	425,400	326,500	183,400	121,800	323,200	172,900	306,200	379,400	942,700	363,100	148,500	444,598	113,599
	Net Days	335,331 20	207,580 17	532,251 20	379,299 14	294,612 10	156,846 5	93,394 4	297,471 12	147,715 11	267,700 14	348,837 18	917,206 17	341,424 16	129,687 18	428,177 21	99,179 12
June	Gross	632,200	202,200	395,100	367,900	253,200	160,800	130,700	173,300	128,700	110,000	205,200	473,100	142,000	497,300	168,921	262,025
	Net Days	486,721 20	132,132 16	347,485 14	303,576 13	208,659 9	118,979 6	104,449 5	148,638 4	107,411 6	79,200 7	174,305 13	449,046 16	118,568 12	478,285 18	152,639 12	245,083 19
July	Gross	333,900	182,200	194,500	187,700	137,700	92,600	195,500	129,100	164,760	187,900	85,600	79,700	98,400	280,000	151,772	138,495
	Net Days	184,955 20	111,941 16	145,344 16	142,849 11	111,217 7	78,234 3	183,084 5	99,026 6	141,442 6	153,170 7	55,670 4	53,632 5	72,435 9	260,823 19	123,921 15	122,874 16
August	Gross	437,100	267,200	151,300	158,600	301,900	98,800	322,440	120,800	197,340	369,400	184,300	193,900	73,960	193,144	98,166	108,376
	Net Days	286,925 23	194,821 18	107,928 17	114,497 8	269,934 10	55,055 5	293,900 10	106,040 5	191,068 6	347,425 18	162,562 8	166,652 13	49,422 8	168,418 21	83,010 9	91,308 7
September	Gross	209,600	144,900	148,600	105,800	484,800	317,900	249,160	68,400	152,200	101,500	88,100	47,800	161,100	131,289	139,016	151,905
	Net Days	82,263 20	81,619 16	94,401 12	60,350 7	435,482 12	284,315 8	213,343 7	49,041 4	122,101 9	76,057 7	56,678 2	21,679 6	136,728 17	110,397 23	111,392 13	134,935 12
October	Gross	264,300	438,500	154,600	211,000	135,700	486,300	919,200	173,000	296,100	199,200	120,200	417,500	318,400	503,036	121,075	146,842
	Net Days	134,248 20	348,153 18	108,226 13	211,000 9	94,476 4	445,560 10	892,734 18	141,650 8	274,068 13	129,035 8	88,537 5	389,696 14	291,391 19	480,233 20	94,680 18	123,794 11
November	Gross	250,900	250,400	360,800	356,800	211,400	524,600	691,800	90,100	449,700	210,100	263,400	350,100	526,900	538,978	107,729	146,722
	Net Days	132,728 17	194,481 16	306,258 14	310,650 12	186,999 5	494,443 14	658,765 14	77,506 3	414,149 14	152,302 12	233,159 15	322,735 12	504,290 20	520,087 19	85,439 12	127,799 15
December	Gross	522,600	555,300	549,600	692,300	674,400	502,000	510,400	345,700	757,500	506,200	510,900	952,000	517,700	677,411	471,085	155,368
	Net Days	421,149 17	475,856 18	496,556 15	643,735 14	622,403 14	476,165 12	492,900 12	317,790 8	733,582 20	467,578 17	483,221 17	926,201 19	493,061 14	660,890 17	456,099 14	138,929 13
Total	Gross	5,281,200	4,277,500	4,751,200	4,345,500	5,003,600	5,152,200	5,055,800	3,663,300	4,735,700	4,042,500	3,734,100	5,859,600	4,149,060	5,087,758	3,689,013	2,889,343
	Net Days	3,551,603 242	3,254,348 215	4,115,626 203	3,819,210 148	4,529,349 128	4,743,871 118	4,712,073 119	3,363,226 107	4,445,962 143	3,613,238 153	3,344,216 141	5,550,209 171	3,867,868 180	4,846,582 234	3,455,883 186	2,689,450 172
Monthly Average	Gross	440,100	356,458	395,933	362,125	416,967	429,350	421,317	305,275	394,642	336,875	311,175	488,300	345,755	423,980	307,418	240,779
	Net Days	295,967 20	271,196 18	342,969 17	318,268 12	377,446 11	395,323 10	392,673 10	280,269 9	370,497 12	301,103 13	278,685 12	462,517 14	322,322 15	403,882 20	287,990 16	224,121 14
Precipitation Inches (4)		36.33	29.56	31.05	32.03	36.33	35.99	38.66	24.02	36.45	37.85	34.54	40.26	31.87	40.66	35.12	24.99

Notes:
(1) - Gross: Total volume of leachate treated in gallons; treatment at LCTF includes leachate collected from 102nd Street Landfill Site.
(2) - Net: Love Canal leachate treated in gallons; net is equal to the total (gross) leachate treated less leachate received from 102nd Street.
(3) - Days: Number of days treatment facility discharged to the sanitary sewer.
(4) - Precipitation data obtained from the National Climatic Data Center for Niagara Falls International Airport.

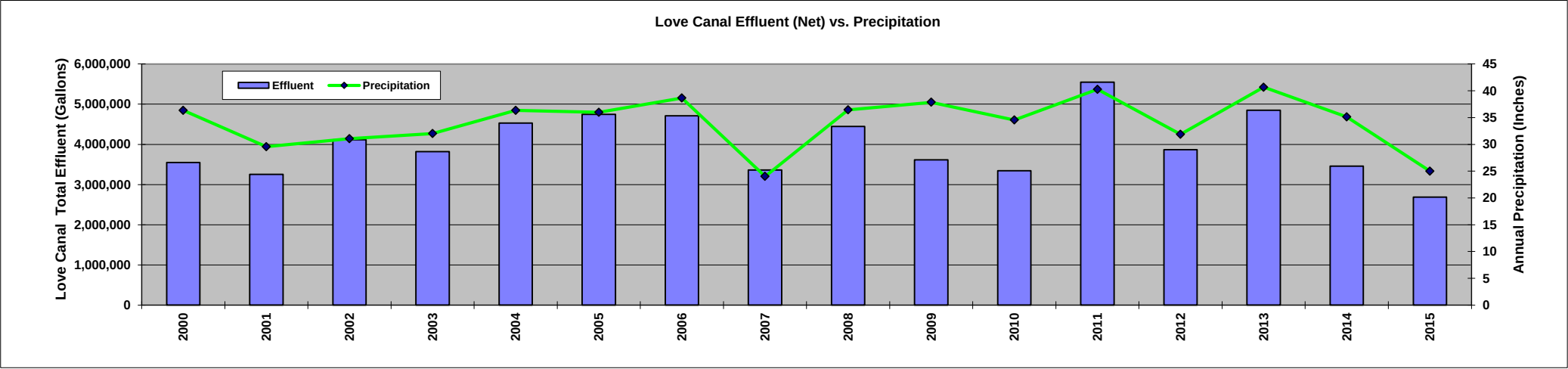


Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		7120	7130	7132	7155	7161	8106	8110	8120
Sample ID:		WG-9954-061715-DJT-001	WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005	WG-9954-062515-SG-020	WG-9954-062215-DJT-006	WG-9954-062215-DJT-007
Sample Date:		6/17/2015	6/17/2015	6/17/2015	6/22/2015	6/22/2015	6/25/2015	6/22/2015	6/22/2015
Parameters	Units								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
1,2-Dichlorobenzene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
1,3-Dichlorobenzene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
1,4-Dichlorobenzene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,4,5-Trichlorophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,4,6-Trichlorophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,4-Dichlorophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,4-Dimethylphenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,4-Dinitrophenol	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
2,4-Dinitrotoluene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2,6-Dinitrotoluene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
2-Chlorophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
2-Methylphenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
2-Nitroaniline	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
2-Nitrophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
3,3'-Dichlorobenzidine	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
3-Nitroaniline	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
4,6-Dinitro-2-methylphenol	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location: Sample ID: Sample Date:		7120 WG-9954-061715-DJT-001 6/17/2015	7130 WG-9954-061715-DJT-003 6/17/2015	7132 WG-9954-061715-DJT-002 6/17/2015	7155 WG-9954-062215-DJT-004 6/22/2015	7161 WG-9954-062215-DJT-005 6/22/2015	8106 WG-9954-062515-SG-020 6/25/2015	8110 WG-9954-062215-DJT-006 6/22/2015	8120 WG-9954-062215-DJT-007 6/22/2015
Parameters	Units								
Semi-volatile Organic Compounds-Continued									
4-Bromophenyl phenyl ether	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
4-Chloro-3-methylphenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
4-Chloroaniline	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
4-Chlorophenyl phenyl ether	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
4-Methylphenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
4-Nitroaniline	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
4-Nitrophenol	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzoic acid	µg/L	48 U	46 U	46 U	46 U	46 U	46 U	50 U	48 U
Benzyl alcohol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
bis(2-Chloroethyl)ether	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	8.5 J	19 U	19 U	19 U	7.9 J	20 U	5.7 J
Butyl benzylphthalate (BBP)	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Dibenzofuran	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Diethyl phthalate	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Dimethyl phthalate	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Hexachlorobenzene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Hexachlorobutadiene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Hexachlorocyclopentadiene	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Hexachloroethane	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Isophorone	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	20 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
N-Nitrosodiphenylamine	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Pentachlorophenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Phenol	µg/L	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	10 U	9.6 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Discrete Compounds Detected:		0	1	0	0	0	1	0	1
Polychlorinated Biphenyls (PCBs)									
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		7120	7130	7132	7155	7161	8106	8110	8120
Sample ID:		WG-9954-061715-DJT-001	WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005	WG-9954-062515-SG-020	WG-9954-062215-DJT-006	WG-9954-062215-DJT-007
Sample Date:		6/17/2015	6/17/2015	6/17/2015	6/22/2015	6/22/2015	6/25/2015	6/22/2015	6/22/2015
Parameters	Units								
Pesticides									
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location: Sample ID: Sample Date:		8130 WG-9954-062215-DJT-008 6/22/2015	8140 WG-9954-062215-DJT-009 6/22/2015	9110 WG-9954-062415-SG-015 6/24/2015	9115 WG-9954-062315-SG-014 6/23/2015	9120 WG-9954-062315-SG-012 6/23/2015	9125 WG-9954-062315-SG-013 6/23/2015	9130 WG-9954-062315-SG-010 6/23/2015	9130 WG-9954-062315-SG-011 6/23/2015 (Duplicate)
Parameters	Units								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location: Sample ID: Sample Date:		8130 WG-9954-062215-DJT-008 6/22/2015	8140 WG-9954-062215-DJT-009 6/22/2015	9110 WG-9954-062415-SG-015 6/24/2015	9115 WG-9954-062315-SG-014 6/23/2015	9120 WG-9954-062315-SG-012 6/23/2015	9125 WG-9954-062315-SG-013 6/23/2015	9130 WG-9954-062315-SG-010 6/23/2015	9130 WG-9954-062315-SG-011 6/23/2015 (Duplicate)
Parameters	Units								
Semi-volatile Organic Compounds-Continued									
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	9.8 J	19 U	4.2 J	7.5 J	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Discrete Compounds Detected:		0	0	0	1	0	1	1	0
Polychlorinated Biphenyls (PCBs)									
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		8130	8140	9110	9115	9120	9125	9130	9130
Sample ID:		WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062415-SG-015	WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010	WG-9954-062315-SG-011
Sample Date:		6/22/2015	6/22/2015	6/24/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
Parameters	Units								(Duplicate)
Pesticides									
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		9140	10105	10135	10147	10174A
Sample ID:		WG-9954-062415-SG-016	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022	WG-9954-062515-SG-021
Sample Date:		6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Parameters	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Acetone	µg/L	20 UJ	20 U	2000 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	6200	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Carbon disulfide	µg/L	1.9 J	5.0 U	500 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	2600	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	180 J	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
ethylbenzene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	150 J	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	20000	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	110 J	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	500 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	500 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	1000 U	10 U	10 U
Discrete Compounds Detected:		1	0	6	0	0
Semi-volatile Organic Compounds						
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	47 J	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	140 J	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	790	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	1200 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	44 J	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	1200 U	46 U	46 U

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location: Sample ID: Sample Date:		9140 WG-9954-062415-SG-016 6/24/2015	10105 WG-9954-062515-SG-017 6/25/2015	10135 WG-9954-062515-SG-023 6/25/2015	10147 WG-9954-062515-SG-022 6/25/2015	10174A WG-9954-062515-SG-021 6/25/2015
Parameters	Units					
Semi-volatile Organic Compounds-Continued						
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	93 J	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	1200 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	16000	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	250	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	27 J	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	8.0 J	460 U	8.3 J	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Isophorone	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	460 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	87 J	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U	1.9 U
Discrete Compounds Detected:		0	1	9	1	0
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Discrete Compounds Detected:		0	0	0	0	0

Table 3.2

2015 Analytical Results Summary-Overburden
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		9140	10105	10135	10147	10174A
Sample ID:		WG-9954-062415-SG-016	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022	WG-9954-062515-SG-021
Sample Date:		6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
Parameters	Units					
Pesticides						
4,4'-DDD	µg/L	0.050 U	0.050 U	R	0.045 J	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	20	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	4.7	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	7.4	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.035 J	0.050 U	0.050 U
Endrin	µg/L	0.050 U	0.050 U	1.4	0.050 U	0.050 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	3.2	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	1.1 J	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Discrete Compounds Detected:		0	0	7	1	0

Notes:
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Results rejected. Refer to Appendix F-Data Validation Memo for explanation(s)

Table 3.3

2015 Analytical Results Summary-Bedrock
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		3257	5221	6209	7205	8210	9205	9210	9210	10205	10210A	10210B	10210C
Sample ID:		WG-9954-070115-SG-038	WG-9954-070115-SG-040	WG-9954-070215-SG-045	WG-9954-062515-SG-027	WG-9954-062615-SG-029	WG-9954-062615-SG-028	WG-9954-062615-SG-030	WG-9954-062615-SG-031	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041	WG-9954-070215-SG-042
Sample Date:		7/1/2015	7/1/2015	7/2/2015	6/25/2015	6/26/2015	6/26/2015	6/26/2015	6/26/2015 (Duplicate)	6/26/2015	6/26/2015	7/2/2015	7/2/2015
Parameters	Units												
Volatile Organic Compounds													
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	2.2 J	1.5 J	5.0 U	5.0 U	1.2 J	1.2 J	1.2 J	1.4 J	5.0 U	5.0 U	7.9	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	0.95 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds Detected:		1	1	0	0	1	1	1	1	0	1	1	0
Semi-volatile Organic Compounds													
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U

Table 3.3

2015 Analytical Results Summary-Bedrock
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		3257	5221	6209	7205	8210	9205	9210	9210	10205	10210A	10210B	10210C
Sample ID:		WG-9954-070115-SG-038	WG-9954-070115-SG-040	WG-9954-070215-SG-045	WG-9954-062515-SG-027	WG-9954-062615-SG-029	WG-9954-062615-SG-028	WG-9954-062615-SG-030	WG-9954-062615-SG-031	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041	WG-9954-070215-SG-042
Sample Date:		7/1/2015	7/1/2015	7/2/2015	6/25/2015	6/26/2015	6/26/2015	6/26/2015	6/26/2015 (Duplicate)	6/26/2015	6/26/2015	7/2/2015	7/2/2015
Parameters	Units												
Semi-volatile Organic Compounds-Continued													
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	2.7 J	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	2.1 J	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.41 J	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Discrete Compounds Detected:		0	0	0	1	1	0	0	0	0	1	0	0
Polychlorinated Biphenyls (PCBs)													
Aroclor-1016 (PCB-1016)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1221 (PCB-1221)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1232 (PCB-1232)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1242 (PCB-1242)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1248 (PCB-1248)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1254 (PCB-1254)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Aroclor-1260 (PCB-1260)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U	0.21 U	0.20 U	0.21 U	0.21 U	0.20 U	0.20 U	0.42 U	0.42 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0	0
Pesticides													
4,4'-DDD	µg/L	0.026 U	0.022 J	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.052 U
4,4'-DDE	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.017 J	0.023 NJ	0.052 U	0.052 U
4,4'-DDT	µg/L	0.017 J	0.025 U	0.052 U	0.050 U	0.025 J	0.025 U	0.057	0.029 J	0.037 J	0.078 J	0.052 U	0.052 U
Aldrin	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.052 U
alpha-BHC	µg/L	0.026 U	0.025 U	0.052 U	0.30	0.072 U	0.090 U	0.035 U	0.037 U	0.025 U	0.025 U	0.052 U	0.054 U
alpha-Chlordane	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.030	0.052 U	0.052 U
beta-BHC	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	R	R	R	0.026 U	R	0.025 U	0.052 U	0.052 U
delta-BHC	µg/L	0.035	0.032 J	0.052 U	0.14	R	0.090	R	0.026 U	0.10 NJ	R	0.052 U	0.052 U
Dieldrin	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.061	0.032 J	0.019 J	0.022 J	0.025 U	0.052 U	0.052 U
Endosulfan I	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	R	0.026 U	0.025 U	R	0.052 U	0.052 U
Endosulfan II	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	R	0.026 U	0.037 NJ	R	0.052 U	0.052 U
Endosulfan sulfate	µg/L	0.026 U	0.014 NJ	0.052 U	0.050 U	0.026 U	0.025 U	0.077	0.039	R	R	0.052 U	0.052 U
Endrin	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.13
Endrin ketone	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.052 U
gamma-BHC (lindane)	µg/L	0.026 U	0.025 U	0.052 U	0.26	0.056 U	0.071 U	0.026 U	0.041 U	0.025 U	0.025 U	0.052 U	0.052 U
gamma-Chlordane	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.052 U
Heptachlor	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.025 U	0.026 U	0.026 U	0.025 U	0.025 U	0.052 U	0.052 U
Heptachlor epoxide	µg/L	0.026 U	0.025 U	0.052 U	0.050 U	0.026 U	0.028	0.026 U	0.026 U	0.025 U	R	0.052 U	0.052 U
Methoxychlor	µg/L	0.052 U	0.028 J	0.10 U	0.039 J	0.051 J	0.024 J	0.074	0.11	R	R	0.10 U	0.10 U
Toxaphene	µg/L	2.1 U	2.0 U	4.2 U	4.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.0 U	2.0 U	4.2 U	4.2 U
Discrete Compounds Detected:		2	3	0	4	2	4	4	4	3	2	0	1

Table 3.3
2015 Analytical Results Summary-Bedrock
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:	10210C	10215	10225A	10225B	10225C	10225C	10270	10272	10278	MW-01	MW-02
Sample ID:	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033	WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024	WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:	7/2/2015	7/2/2015	6/26/2015	6/26/2015	6/24/2015	6/24/2015	6/25/2015	6/25/2015	7/1/2015	7/1/2015	7/1/2015
Parameters	Units	(Duplicate)				(Duplicate)					
Volatile Organic Compounds											
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U	20 UJ	20 UJ	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	2.1 J	2.0 J	5.0 U	2.2 J	5.0 U	5.0 U	2.9 J	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.9 J	2.0 J	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	4.9 J	4.8 J	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	0.73 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	13	15	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds Detected:	1	1	0	1	3	3	0	0	0	0	0
Semi-volatile Organic Compounds											
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	5.1 J	6.6 J	9.3 U	9.3 U	9.6 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U

Table 3.3

2015 Analytical Results Summary-Bedrock
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Sample Location:		10210C	10215	10225A	10225B	10225C	10225C	10270	10272	10278	MW-01	MW-02
Sample ID:		WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033	WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024	WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:		7/2/2015	7/2/2015	6/26/2015	6/26/2015	6/24/2015	6/24/2015	6/25/2015	6/25/2015	7/1/2015	7/1/2015	7/1/2015
Parameters		(Duplicate)					(Duplicate)					
Units												
Semi-volatile Organic Compounds-Continued												
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	48 U	46 U	46 U	46 U	46 U	46 U	48 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	3.0 J	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Isophorone	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.0 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.6 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Discrete Compounds Detected:		0	0	2	0	1	1	0	0	0	0	0
Polychlorinated Biphenyls (PCBs)												
Aroclor-1016 (PCB-1016)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1254 (PCB-1254)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.42 U	0.42 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.21 U	0.20 U	0.20 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0
Pesticides												
4,4'-DDD	µg/L	0.052 U	0.033 J	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	R	R	0.034	0.025 U
4,4'-DDE	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
4,4'-DDT	µg/L	0.053 J	0.070	R	0.055 NJ	0.050 U	0.050 U	0.050 U	0.050 U	0.030	0.025 U	0.023 J
Aldrin	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
alpha-BHC	µg/L	0.052 U	0.087 U	0.025 U	0.025 U	0.039 J	0.047 J	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
alpha-Chlordane	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
beta-BHC	µg/L	0.052 U	0.052 U	R	R	0.050 U	0.050 U	0.050 U	0.050 U	R	0.025 U	0.025 U
delta-BHC	µg/L	0.052 U	0.061	R	0.025 U	0.066	0.085	R	0.050 U	0.035 J	0.042	0.025 J
Dieldrin	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
Endosulfan I	µg/L	0.052 U	0.052 U	R	R	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
Endosulfan II	µg/L	0.052 U	0.052 U	0.025 U	0.049	0.050 U	0.050 U	0.089 J	0.050 U	0.054 J	0.025 U	0.025 U
Endosulfan sulfate	µg/L	0.052 U	0.052 U	R	0.029	0.050 U	0.050 U	0.031 J	0.050 U	R	0.025 U	0.025 U
Endrin	µg/L	0.052 U	0.052 U	0.025 U	R	0.050 U	0.050 U	0.050 U	0.050 U	R	0.025 U	0.025 U
Endrin ketone	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
gamma-BHC (lindane)	µg/L	0.052 U	0.062 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
gamma-Chlordane	µg/L	0.052 U	0.052 U	0.025 U	0.019 J	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
Heptachlor	µg/L	0.052 U	0.052 U	0.025 U	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
Heptachlor epoxide	µg/L	0.052 U	0.052 U	0.053	0.025 U	0.050 U	0.050 U	0.050 U	0.050 U	0.026 U	0.025 U	0.025 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.050 U	0.086 J	0.10 U	0.10 U	0.10 U	0.10 U	0.11	0.050 U	R
Toxaphene	µg/L	4.2 U	4.2 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	2.1 U	2.0 U	2.0 U
Discrete Compounds Detected:		1	3	1	4	2	2	2	0	4	2	2
Notes:												
J - Estimated concentration												
U - Not detected at the associated reporting limit												
UJ - Not detected; associated reporting limit is estimated												
R - Rejected. Refer to Appendix F-Data Validation Memo for explanation(s)												

Summary of Detected Compounds - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Overburden Wells	Well Group	Number of Parameters Detected			
		VOCs	SVOCs	PCBs	Pesticides
7120	A	U	U	U	U
7130	A	U	1	U	U
7132	A	U	U	U	U
7155	A	U	U	U	U
7161	A	U	U	U	U
8106	A	U	1	U	U
8110	A	U	U	U	U
8120	A	U	1	U	U
8130	A	U	U	U	U
8140	A	U	U	U	U
9110	A	U	U	U	U
9115	A	U	1	U	U
9120	A	U	U	U	U
9125	A	U	1	U	U
9130	A	U	1	U	U
9140	A	1	U	U	U
10105	A	U	1	U	U
10135	A	6	9	U	7
10147	A	U	1	U	1
10174A	X	U	U	U	U
Subtotal					
Overburden		7	17	0	8
Bedrock Wells		VOCs	SVOCs	PCBs	Pesticides
3257	A	1	U	U	2
5221	A	1	U	U	3
6209	A	U	U	U	U
7205	A	U	1	U	4
8210	A	1	1	U	2
9205	A	1	U	U	4
9210	A	1	U	U	4
10205	A	U	U	U	3
10210A	A	1	1	U	2
10210B	A	1	U	U	U
10210C	A	U	U	U	1
10215	A	1	U	U	3
10225A	A	U	2	U	1
10225B	A	1	U	U	4
10225C	A	3	1	U	2
10270	A	U	U	U	2
10272	A	U	U	U	U
10278	A	U	U	U	4
MW-01	X	U	U	U	2
MW-02	X	U	U	U	2
Subtotal Bedrock Well Detections		12	6	0	45
Total # of Detections		19	23	0	53

Notes:

- U - No parameters detected at or above detection limits
- A - Annual Well
- X - Additional annual well added to program in 2011
- PCBs - Polychlorinated Biphenyls
- SVOCs - Semi-volatile Organic Compounds
- VOCs - Volatile Organic Compounds

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A
SampleDate:	7/24/1990	8/22/1991	8/26/1992	8/11/1993	5/25/1995	7/1/1996	7/10/1997	6/26/1998	6/23/1999	6/21/2000	5/18/2001	6/13/2002	5/27/2003	6/3/2004	6/28/2005	7/6/2006	7/26/2007	7/17/2008	7/15/2009
Parameters																			
Volatiles (µg/L)																			
1,1,1-Trichloroethane																			
1,1,2,2-Tetrachloroethane				0.2															
1,1,2-Trichloroethane																			
1,1-Dichloroethene																			
1,2-Dichloroethane																			
1,2-Dichloroethene (total)																			
1,2-Dichloropropane				0.04															
2-Butanone (Methyl Ethyl Ketone)									2 J			3 J		4 J					
2-Hexanone				0.4					3 J										
Acetone	14C			13B				120 J			10 J								
Benzene				0.1															
Bromoform				0.03															
Bromomethane (Methyl bromide)																			
Carbon Disulfide				2	20	310					6 J			6 J	1.6 J	1 J	8 J	24	
Chlorobenzene																			
Chloroform																			
Chlorotoluenes																			
cis-1,2-Dichloroethene																			
Dibromochloromethane				0.08															
Dichlorotoluene, total																			
Ethylbenzene				0.6															
m&p-Xylenes																			
Methylene Chloride				0.3															
o-Xylene																			
Styrene				0.1															
Tetrachloroethene				0.07															
Toluene				0.4					2 J						2.3 J				
trans-1,2-Dichloroethene																			
Trichloroethene				0.1															
Trichlorotoluene, total																			
Vinyl Acetate																			
Vinyl Chloride																			
Xylenes (total)				1															
Semi-volatiles (µg/L)																			
1,2,4-Trichlorobenzene																			
1,2-Dichlorobenzene																			
1,3-Dichlorobenzene																			
1,4-Dichlorobenzene																			
2,4,5-Trichlorophenol																			
2,4,6-Trichlorophenol																			
2,4-Dichlorophenol																			
2,4-Dimethylphenol																			
2-Chloronaphthalene																			
2-Chlorophenol																			
2-Methylnaphthalene																			
2-Methylphenol																			
2-Nitrophenol																			
3,5-Dichlorotoluene																			
4-Chloro-3-methylphenol																			
4-Chlorophenyl phenyl ether																			
4-Methylphenol																			
Acetic acid																			
Anthracene																			
Benzo(a)pyrene																			
Benzo(b)fluoranthene																			
Benzo(g,h,i)perylene																			
Benzo(k)fluoranthene																			
Benzoic Acid							12 J						3 J	3 J	2.7 J				5.8 J
Benzyl Alcohol																			
Bis(2-Chloroethyl)Ether																			

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A
SampleDate:	7/24/1990	8/22/1991	8/26/1992	8/11/1993	5/25/1995	7/1/1996	7/10/1997	6/26/1998	6/23/1999	6/21/2000	5/18/2001	6/13/2002	5/27/2003	6/3/2004	6/28/2005	7/6/2006	7/26/2007	7/17/2008	7/15/2009
Parameters																			
Semi-volatiles (µg/L)-Continued																			
bis(2-Ethylhexyl)Phthalate		12	21	31	51									1 J	1.7 J	8 J			2.5 J
Butyl benzylphthalate (BBP)				3															
Camphor																			
Carbazole																			
Chlorobenzoic acid																			
Chrysene																			
Dibenz(a,h)anthracene																			
Diethyl phthalate																			
Dimethyl Phthalate	16																		
Dimethyl tetrasulfide				22															
Di-n-butyl phthalate (DBP)		2		0.9															
Di-n-octyl phthalate (DnOP)	3B																		
Fluoranthene																			
Hexachlorobenzene																			
Hexachloroethane																			
Indeno(1,2,3-cd)pyrene																			
Naphthalene																			
N-Nitrosodiphenylamine																			
Pentachlorophenol																			
Phenanthrene																			
Phenol									1 J				5 J	1 J	1.7 J				
Pyrene																			
Pesticides/PCBs (µg/L)																			
4,4'-DDD													0.013 J						
4,4'-DDE																			
Aldrin																			
Alpha-BHC								0.28											
Alpha-Chlordane																			
Aroclor-1260 (PCB-1260)																			
beta&gamma-BHC (sum of isomers)																			
Beta-BHC									0.035 J				0.020 J	0.011 J				0.015 J	
Delta-BHC				0.0061									0.062 J	0.043 J					
Dieldrin																			
Endosulfan I									0.046 J										
Endosulfan II																			
Endosulfan Sulfate																			
Endrin																			
Endrin ketone																			
Gamma-BHC (Lindane)									0.10 J				0.039 J						
Gamma-Chlordane																			
Heptachlor																			
Heptachlor epoxide																			
Methoxychlor																			

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B
SampleDate:	6/24/2010	7/19/2011	6/22/2012	6/13/2013	6/27/2014	6/26/2015	7/24/1990	8/22/1991	8/26/1992	8/11/1993	6/15/1994	6/1/1995	7/5/1996	7/1/1997	6/18/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002
Parameters																			
Volatiles (µg/L)																			
1,1,1-Trichloroethane																			
1,1,2,2-Tetrachloroethane																			
1,1,2-Trichloroethane																			
1,1-Dichloroethene											0.06								
1,2-Dichloroethane																			
1,2-Dichloroethene (total)																			
1,2-Dichloropropane																			
2-Butanone (Methyl Ethyl Ketone)											4								
2-Hexanone																			
Acetone	5.2 J								31	6	12 B	23						12 J	
Benzene										0.3	0.3								
Bromoform																			
Bromomethane (Methyl bromide)										0.2									
Carbon Disulfide			2.7 J			2.9 J				2	0.4				8 J	2 J		14	3 J
Chlorobenzene											0.2								
Chloroform																			
Chlorotoluenes																			
cis-1,2-Dichloroethene																			
Dibromochloromethane																			
Dichlorotoluene, total																			
Ethylbenzene										0.2	0.08								
m&p-Xylenes																			
Methylene Chloride										0.4	0.2								
o-Xylene																			
Styrene																			
Tetrachloroethene										0.06									
Toluene							1.8				0.5					2 J	1 J		
trans-1,2-Dichloroethene																			
Trichloroethene	6.3									0.1	0.1								
Trichlorotoluene, total																			
Vinyl Acetate																			
Vinyl Chloride																			
Xylenes (total)										0.5	0.5								
Semi-volatiles (µg/L)																			
1,2,4-Trichlorobenzene																			
1,2-Dichlorobenzene																			
1,3-Dichlorobenzene																			
1,4-Dichlorobenzene																			
2,4,5-Trichlorophenol																			
2,4,6-Trichlorophenol																			
2,4-Dichlorophenol																			
2,4-Dimethylphenol																			
2-Chloronaphthalene																			
2-Chlorophenol																			
2-Methylnaphthalene											0.06								
2-Methylphenol																			
2-Nitrophenol																			
3,5-Dichlorotoluene																			
4-Chloro-3-methylphenol																			
4-Chlorophenyl phenyl ether																			
4-Methylphenol											0.2								
Acetic acid																			
Anthracene																			
Benzo(a)pyrene											0.07								
Benzo(b)fluoranthene											0.08								
Benzo(g,h,i)perylene											0.1								
Benzo(k)fluoranthene											0.04								
Benzoic Acid																			
Benzyl Alcohol																			
Bis(2-Chloroethyl)Ether																			

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B
SampleDate:	6/24/2010	7/19/2011	6/22/2012	6/13/2013	6/27/2014	6/26/2015	7/24/1990	8/22/1991	8/26/1992	8/11/1993	6/15/1994	6/1/1995	7/5/1996	7/1/1997	6/18/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002
Parameters																			
Semi-volatiles (µg/L)-Continued																			
bis(2-Ethylhexyl)Phthalate							7 B	13		11	9			55	6 J				
Butyl benzyIphthalate (BBP)											0.2								
Camphor																			
Carbazole											0.05								
Chlorobenzoic acid																			
Chrysene																			
Dibenz(a,h)anthracene											0.1								
Diethyl phthalate											0.3								
Dimethyl Phthalate																			
Dimethyl tetrasulfide																			
Di-n-butyl phthalate (DBP)							1	1			0.6							3 J	
Di-n-octyl phthalate (DnOP)											0.1								
Fluoranthene											0.04								
Hexachlorobenzene																			
Hexachloroethane																			
Indeno(1,2,3-cd)pyrene											0.1								
Naphthalene						0.41 J													
N-Nitrosodiphenylamine											0.2								
Pentachlorophenol							1				0.3								
Phenanthrene											0.07								
Phenol							3	3			2								
Pyrene											0.04								
Pesticides/PCBs (µg/L)																			
4,4'-DDD																			
4,4'-DDE																			
Aldrin																			
Alpha-BHC	0.14 J																		
Alpha-Chlordane						0.030													
Aroclor-1260 (PCB-1260)																			
beta&gamma-BHC (sum of isomers)																			
Beta-BHC	0.12 J																		
Delta-BHC	0.12 J			0.067 J															
Dieldrin																			
Endosulfan I																			
Endosulfan II																			
Endosulfan Sulfate																			
Endrin																			
Endrin ketone																			
Gamma-BHC (Lindane)	0.12 J																		
Gamma-Chlordane																			
Heptachlor																			
Heptachlor epoxide																			
Methoxychlor																			

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

	Well Number: SampleDate:	10210B 5/23/2003	10210B 6/2/2004	10210B 6/24/2005	10210B 6/28/2006	10210B 7/26/2007	10210B 7/17/2008	10210B 7/9/2009	10210B 6/15/2010	10210B 7/14/2011	10210B 6/18/2012	10210B 6/15/2013	10210B 6/26/2014	10210B 7/2/2015	10210C 7/25/1990	10210C 8/22/1991	10210C 8/26/1992	10210C 8/11/1993	10210C 6/8/1994
Parameters																			
Semi-volatiles (µg/L)-Continued																			
bis(2-Ethylhexyl)Phthalate			4 J	4.5 J	3 J										7 B	13			8
Butyl benzylphthalate (BBP)															1				0.4
Camphor																			
Carbazole																			
Chlorobenzoic acid																			
Chrysene																			
Dibenz(a,h)anthracene																			
Diethyl phthalate											1.8 J				1				0.2
Dimethyl Phthalate																			
Dimethyl tetrasulfide																			
Di-n-butyl phthalate (DBP)															2	3			0.5
Di-n-octyl phthalate (DnOP)																			0.04
Fluoranthene																			
Hexachlorobenzene		1 J																	
Hexachloroethane																1			
Indeno(1,2,3-cd)pyrene																			
Naphthalene																			
N-Nitrosodiphenylamine																			
Pentachlorophenol																			
Phenanthrene																			0.03
Phenol															2	6			
Pyrene																			
Pesticides/PCBs (µg/L)																			
4,4'-DDD																			
4,4'-DDE			0.011 J																
Aldrin					.0089 J														
Alpha-BHC		19	2.4	0.37	.58	0.016 J		0.050 / 0.064		0.048 J									
Alpha-Chlordane																			
Aroclor-1260 (PCB-1260)																			
beta&gamma-BHC (sum of isomers)																			
Beta-BHC		1.9	0.53	0.082 P	.082														
Delta-BHC		0.56 J	0.15		.047 J			0.028 J / 0.032 J	0.050 J	0.042 J									
Dieldrin		0.13 J																	
Endosulfan I		0.11 J																	
Endosulfan II																			
Endosulfan Sulfate																			
Endrin																			
Endrin ketone																			
Gamma-BHC (Lindane)		2.1	0.39	0.046 J	.099			0.038 J / 0.033 J		0.061 J									
Gamma-Chlordane		0.15 J																	
Heptachlor										0.053 J									
Heptachlor epoxide		0.35 J																	
Methoxychlor																			

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

	Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C
	SampleDate:	6/1/1995	7/1/1996	7/1/1997	6/22/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/7/2004	6/23/2005	6/28/2006	7/26/2007	7/16/2008	7/13/2009	6/15/2010	7/14/2011	6/22/2012	6/15/2013
Parameters																				
Volatiles (µg/L)																				
1,1,1-Trichloroethane																				
1,1,2,2-Tetrachloroethane																				
1,1,2-Trichloroethane																				
1,1-Dichloroethene																				
1,2-Dichloroethane																				
1,2-Dichloroethene (total)																				
1,2-Dichloropropane																				
2-Butanone (Methyl Ethyl Ketone)																				
2-Hexanone																				
Acetone																				
Benzene																				
Bromoform																				
Bromomethane (Methyl bromide)																				
Carbon Disulfide																				
Chlorobenzene																				
Chloroform																				
Chlorotoluenes																				
cis-1,2-Dichloroethene																				
Dibromochloromethane																				
Dichlorotoluene, total																				
Ethylbenzene																				
m&p-Xylenes																				
Methylene Chloride																				
o-Xylene																				
Styrene																				
Tetrachloroethene																				
Toluene																				
trans-1,2-Dichloroethene																				
Trichloroethene																				
Trichlorotoluene, total																				
Vinyl Acetate																				
Vinyl Chloride																				
Xylenes (total)																				
Semi-volatiles (µg/L)																				
1,2,4-Trichlorobenzene																				
1,2-Dichlorobenzene																				
1,3-Dichlorobenzene																				
1,4-Dichlorobenzene																				
2,4,5-Trichlorophenol																				
2,4,6-Trichlorophenol																				
2,4-Dichlorophenol																				
2,4-Dimethylphenol																				
2-Chloronaphthalene																				
2-Chlorophenol																				
2-Methylnaphthalene																				
2-Methylphenol																				
2-Nitrophenol																				
3,5-Dichlorotoluene																				
4-Chloro-3-methylphenol																				
4-Chlorophenyl phenyl ether																				
4-Methylphenol																				
Acetic acid																				
Anthracene																				
Benzo(a)pyrene																				
Benzo(b)fluoranthene																				
Benzo(g,h,i)perylene																				
Benzo(k)fluoranthene																				
Benzoic Acid																				
Benzyl Alcohol																				
Bis(2-Chloroethyl)Ether																				

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

	Well Number: SampleDate:	10210C 6/1/1995	10210C 7/1/1996	10210C 7/1/1997	10210C 6/22/1998	10210C 6/24/1999	10210C 6/15/2000	10210C 5/17/2001	10210C 6/10/2002	10210C 5/23/2003	10210C 6/7/2004	10210C 6/23/2005	10210C 6/28/2006	10210C 7/26/2007	10210C 7/16/2008	10210C 7/13/2009	10210C 6/15/2010	10210C 7/14/2011	10210C 6/22/2012	10210C 6/15/2013
Parameters																				
Semi-volatiles (µg/L)-Continued																				
bis(2-Ethylhexyl)Phthalate											29 / 5 J		5 J							
Butyl benzylphthalate (BBP)																				
Camphor																				
Carbazole																				
Chlorobenzoic acid																				
Chrysene																				
Dibenz(a,h)anthracene																				
Diethyl phthalate																	4.4 J			
Dimethyl Phthalate																	0.87 J			
Dimethyl tetrasulfide																				
Di-n-butyl phthalate (DBP)																				
Di-n-octyl phthalate (DnOP)																				
Fluoranthene																				
Hexachlorobenzene																				
Hexachloroethane																				
Indeno(1,2,3-cd)pyrene																				
Naphthalene																				
N-Nitrosodiphenylamine																				
Pentachlorophenol																				
Phenanthrene																				
Phenol		22		22																
Pyrene																				
Pesticides/PCBs (µg/L)																				
4,4'-DDD																				
4,4'-DDE																				
Aldrin													0.061 J							
Alpha-BHC												0.083		0.45 J						
Alpha-Chlordane																				
Aroclor-1260 (PCB-1260)																				
beta&gamma-BHC (sum of isomers)																				
Beta-BHC													0.048 J							
Delta-BHC											0.019 J / 0.017 J				0.052 J		0.048 J			
Dieldrin																				
Endosulfan I																				
Endosulfan II																				
Endosulfan Sulfate																				
Endrin													0.14 J							
Endrin ketone																				
Gamma-BHC (Lindane)													0.11 J							
Gamma-Chlordane													0.018 J							
Heptachlor																				
Heptachlor epoxide																				
Methoxychlor																				

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number: SampleDate:	10210C 6/26/2014	10210C 7/2/2015	10135 9/13/1990	10135 8/29/1991	10135 8/26/1992	10135 8/19/1993	10135 6/22/1994	10135 6/1/1995	10135 6/27/1996	10135 7/7/1997	10135 6/17/1998	10135 6/16/1999	10135 6/22/2000	10135 5/11/2001	10135 6/12/2002	10135 5/19/2003	10135 5/28/2004	10135 6/17/2005
Parameters																		
Volatiles (µg/L)																		
1,1,1-Trichloroethane						8	14											
1,1,2,2-Tetrachloroethane						12	51		26		94 J	29 / 32	27 J / 26 J	120 J / 100 J	56	38		
1,1,2-Trichloroethane									14		29 J	15 / 12	16 J / 14 J	29 J / 34 J	27			
1,1-Dichloroethene			6			15	3					4 J / 3 J	4 J / 4 J	4 J / 4 J	4 J	3 J		
1,2-Dichloroethane																		
1,2-Dichloroethene (total)					700	840	650	670 JD	560						600 J / 560	490 J		
1,2-Dichloropropane																		
2-Butanone (Methyl Ethyl Ketone)						36							10 J	11 J / 12 J				
2-Hexanone																		
Acetone			50			270	100 B	100 J	60		110 J		28 J / 46 J		72	74		
Benzene			6200	6700		5200	6000 E	4900 D	4800	5000 / 5600	5300 J	5700 / 5600	6900 J / 6400 D	8500 J / 7600	5900 / 6400	5500		5400
Bromoform																		
Bromomethane (Methyl bromide)																		
Carbon Disulfide												2 J						
Chlorobenzene			2380	2400	2600	1700 E	2900 E	2000 D	1500	2300 / ND	1900 J	1900 / 1800	2300 J / 2300 J	3000 J / 2700 J	2200 / 2400	1900		2000
Chloroform						100	120	86 J	110		150 J	110 / 120	130 J / 100 J	160 J / 150 J	160	110		
Chlorotoluenes			16600	16000														
cis-1,2-Dichloroethene																		
Dibromochloromethane																		
Dichlorotoluene, total			14000	140														
Ethylbenzene			12	10		13	12				12	9 J / 10 J	12 J / 12 J	24 J / 22 J	15	10		
m&p-Xylenes															39	29		
Methylene Chloride			5			41	8		11				24 J / 24 J		39	26		
o-Xylene															12	9 J		
Styrene						4												
Tetrachloroethene			50			8	32				40 J	13 / 12	16 J / 14 J	50 J / 61 J	38	18		
Toluene			22800	26000	2700	17000	21500	18000 D	14000	19000 / 17000	16000 J	16000 / 17000	21000 D / 21000 J	24000 / 22000	20000 j / 19000	15000		16000
trans-1,2-Dichloroethene			20								58 J	67 / 70	67 J / 70 J	59 J / 60 J				
Trichloroethene			260	450		24	140	18 J	36		170 J	58 / 70	60 J / 72 J	180 J / 140 J	160 / 130 J	91		
Trichlorotoluene, total			40															
Vinyl Acetate					6800													
Vinyl Chloride							61	44 J	50		48 J	62 / 61	110 J / 85 J	66 J / 75 J	48	51		
Xylenes (total)			50	30		47	10 B	37 J	28		55 J	44 / 43	42 J / 44 J					
Semi-volatiles (µg/L)																		
1,2,4-Trichlorobenzene			80	290		74	87 B				78 J	45 J / 65 J	45 J / 36 J	65 J / 42 J		97 J		67 J
1,2-Dichlorobenzene			50	16		35	34					24 J / 30 J	18 J / 22 J	48 J		59 J		36 J
1,3-Dichlorobenzene							4											
1,4-Dichlorobenzene			120	47	110	94	91					61 J / 74 J	59 J / 52 J	110 J / 69 J		160 J		100 J
2,4,5-Trichlorophenol			860	130		70	59			38 J			0.9 J					
2,4,6-Trichlorophenol				120			8						1 J					
2,4-Dichlorophenol			830		1200B	420	610	150		2100 / 2100	2000	690 / 610	1400 J / 470 J	620 J / 1200 J	1800 J / 1500 J	1700		420
2,4-Dimethylphenol							9						2 J					
2-Chloronaphthalene								150						370 J / 550 J				
2-Chlorophenol							20				28 J	25 J						
2-Methylnaphthalene																		
2-Methylphenol						51	46				55 J	42 J / 35 J		41 J		50 J		25 J
2-Nitrophenol													1 J					
3,5-Dichlorotoluene						350												
4-Chloro-3-methylphenol				13			31					25 J / 33 J				41 J		
4-Chlorophenyl phenyl ether							2											
4-Methylphenol				10		60	64				130 J	95 J / 120	99 J / 300 J	130 J / 86 J		210 J		49 J
Acetic acid																		
Anthracene							1											
Benzo(a)pyrene																		
Benzo(b)fluoranthene																		
Benzo(g,h,i)perylene																		
Benzo(k)fluoranthene																		
Benzoic Acid			140000	580				6400 D	4000	27000 J / 30000 J	23000 J	4300 / 5000	4700 J / 19000 J	6200 J / 4400 J	31000 / 25000	26000		1400 J
Benzyl Alcohol			4200	1100				380		1900 / 1600	2700	680 / 540	14000 D / 3200 J	330 J / 630 J	2000 / 1700 J	640		23 J
Bis(2-Chloroethyl)Ether						23					24 J	26 J / 25 J						24 J

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10210C	10210C	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	6/26/2014	7/2/2015	9/13/1990	8/29/1991	8/26/1992	8/19/1993	6/22/1994	6/1/1995	6/27/1996	7/7/1997	6/17/1998	6/16/1999	6/22/2000	5/11/2001	6/12/2002	5/19/2003	5/28/2004	6/17/2005
Parameters																		
Semi-volatiles (µg/L)-Continued																		
bis(2-Ethylhexyl)Phthalate						50	2						41 J / 24 J					
Butyl benzylphthalate (BBP)																		
Camphor						130												
Carbazole																		
Chlorobenzoic acid			4000															
Chrysene							0.2											
Dibenz(a,h)anthracene																		
Diethyl phthalate							1											
Dimethyl Phthalate																		
Dimethyl tetrasulfide																		
Di-n-butyl phthalate (DBP)																		
Di-n-octyl phthalate (DnOP)																		
Fluoranthene							0.2											
Hexachlorobenzene																		
Hexachloroethane																		
Indeno(1,2,3-cd)pyrene																		
Naphthalene												1400 J / 2000 J	4000 J / 1800 J	1400 / 1100				1800 J
N-Nitrosodiphenylamine																		
Pentachlorophenol						52	4											
Phenanthrene																		
Phenol				10		98	91	140				120 / 96 J		51 J		180 J		
Pyrene																		
Pesticides/PCBs (µg/L)																		
4,4'-DDD												0.21 / 0.20 J	0.13 J / 0.071 J					0.19 J
4,4'-DDE							0.071											
Aldrin					0.53	0.24 P						0.21 J / 0.74 JN		1.5 JN / 0.95 JN	0.12 J / 0.12 J			
Alpha-BHC					84	42 C	24 CEP	28 D	29	39 / 39	59	40 / 37 J	50 / 50	43 J / 50 J	43 / 39	49		15
Alpha-Chlordane															0.031 J / 0.017 J			
Aroclor-1260 (PCB-1260)																		
beta&gamma-BHC (sum of isomers)						19.5	20.4											
Beta-BHC								10 D	11	8.1 / 8.6	12	12 / 11 J	15 / 16	16 J / 16 J	14 J / 13 J	15 J		3.4
Delta-BHC					15	9.8	7.5 CE	4.7	5.2	5.1 / ND	8.9	11 / 9.6 J	13 / 14	10 J / 12 J	9.0 J / 11 J	12		9.1
Dieldrin																		
Endosulfan I												0.34 J / 0.43 J		1.5 JN / 1.6 JN				
Endosulfan II													0.52 J / 0.69 J					0.15 J
Endosulfan Sulfate						0.43 P						0.18 / 0.17 J	0.17 J			1.3 J		
Endrin		0.13					0.15 P											
Endrin ketone																		
Gamma-BHC (Lindane)					33				2.4 J	6.2 J / 5.1 J	6.5 J	5.5 / 4.1 J	6.4 / 8.0	7.3 J / 5.0 J	7.1 J / 6.1 J	7.1		
Gamma-Chlordane													0.18 J / 0.16 J		0.29 J / 0.35 J			
Heptachlor												0.63 / 0.68 JN				0.61 J		
Heptachlor epoxide												0.043 J / 0.058 J	0.031 J / 0.029 J		0.016 J / 0.025 J	2.2 J		0.053
Methoxychlor																		

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

	Well Number: SampleDate:	10135 6/28/2005	10135 6/26/2006	10135 7/18/2007	10135 7/23/2008	10135 6/25/2009	10135 6/16/2010	10135 7/13/2011	10135 6/12/2012	10135 6/18/2013	10135 6/13/2014	10135 6/25/2015
Parameters												
Volatiles (µg/L)												
1,1,1-Trichloroethane												
1,1,2,2-Tetrachloroethane				16 J		25 / 24						
1,1,2-Trichloroethane				15 J		9.1 J / 8.7 J						
1,1-Dichloroethene				2 J								
1,2-Dichloroethane												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
2-Butanone (Methyl Ethyl Ketone)						5.8 J / 6.1 J						
2-Hexanone												
Acetone			200 J	53 J		42 / 37	39					
Benzene		5700	6800	7100	5300	7500 / 7600	3400	2200	5900	2500	6100	6200
Bromoform												
Bromomethane (Methyl bromide)												
Carbon Disulfide				2 J								
Chlorobenzene		2100	2400	2100	1400	2900 J / 3000 J	1300	1100	2500	730	2300	2600
Chloroform			110 J	140 J	99 J	96 / 97	160	67	130 J			180 J
Chlorotoluenes												
cis-1,2-Dichloroethene			630		79 J	79 / 76	110	38 J				
Dibromochloromethane												
Dichlorotoluene, total												
Ethylbenzene				10 J		10 / 10	13					
m&p-Xylenes												
Methylene Chloride		100 J	44 J	32 J		25 / 24	38	16 J				150 J
o-Xylene												
Styrene												
Tetrachloroethene				13 J		14 / 14	19	9.5 J				
Toluene		18000	21000	23000	13000	24000 / 24000	11000	3100	14000	6100	20000	20000
trans-1,2-Dichloroethene			52 J	50 J	32 J	30 / 30	48	17 J				
Trichloroethene			46 J	89 J	27 J	91 / 89	140	52				110 J
Trichlorotoluene, total												
Vinyl Acetate												
Vinyl Chloride						27 / 17	31					
Xylenes (total)				37 J		44 / 53	51					
Semi-volatiles (µg/L)												
1,2,4-Trichlorobenzene			63	47 J	28	110 / 110	78 J	76 J	74 J	69	64 J	
1,2-Dichlorobenzene			37	31 J	10 J	68 / 52	57 J	45 J		45	34 J	47 J
1,3-Dichlorobenzene			3 J	87 J		4.1 J / 5.5 J				5.2 J		
1,4-Dichlorobenzene		110 J	100	84 J	24	150 J / 100 J	150 J	130 J	110 J	130	94 J	140 J
2,4,5-Trichlorophenol			8 J							10		
2,4,6-Trichlorophenol					6 J	28 / 23				12		
2,4-Dichlorophenol		300 J	250	490	150	1200 / 1100	780	590	240	360	660	790
2,4-Dimethylphenol												
2-Chloronaphthalene									150 J	210		
2-Chlorophenol			18		17 J	31 / 26				28		
2-Methylnaphthalene												
2-Methylphenol			33	34 J	140	66 J / 50 J	42 J	30 J		29	23 J	44 J
2-Nitrophenol												
3,5-Dichlorotoluene												
4-Chloro-3-methylphenol			15		26	95 / 97	31 J			23		
4-Chlorophenyl phenyl ether												
4-Methylphenol		98 J	110	120 J	110	170 J / 140 J	130 J	83 J		89	53 J	93 J
Acetic acid												
Anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzo(k)fluoranthene												
Benzoic Acid		4700 J	14000 J	14000	7600 J	39000 J / 54000 J	9500	11000	8700	16000	14000	16000
Benzyl Alcohol			48	580	38	1200 / 1300	610	450	600 J	380 J	290	250
Bis(2-Chloroethyl)Ether			24	30 J	16 J	29 / 28	34 J	28 J		26	19 J	27 J

Table 3.5
Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	6/28/2005	6/26/2006	7/18/2007	7/23/2008	6/25/2009	6/16/2010	7/13/2011	6/12/2012	6/18/2013	6/13/2014	6/25/2015
Parameters											
Semi-volatiles (µg/L)-Continued											
bis(2-Ethylhexyl)Phthalate		53			4.4 J / 4.2 J						
Butyl benzylphthalate (BBP)											
Camphor											
Carbazole											
Chlorobenzoic acid											
Chrysene											
Dibenz(a,h)anthracene											
Diethyl phthalate											
Dimethyl Phthalate											
Dimethyl tetrasulfide											
Di-n-butyl phthalate (DBP)											
Di-n-octyl phthalate (DnOP)											
Fluoranthene											
Hexachlorobenzene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Naphthalene	4500 J										
N-Nitrosodiphenylamine											
Pentachlorophenol											
Phenanthrene											
Phenol	100 J	140	130 J	96	140 J / 160 J	100	82	89 J	92	62	87 J
Pyrene											
Pesticides/PCBs (µg/L)											
4,4'-DDD	0.11 J		0.081 J	0.13 J		0.048 J		0.036 J	0.089 J		
4,4'-DDE									0.053		
Aldrin			0.073	0.052 J	0.55 J / 0.55 J	0.063 J			0.16 J	0.060 J	
Alpha-BHC	21 C	35	12	17	27 J / 32 J	4.0	21	7.1 J	20	21 J	20
Alpha-Chlordane			0.011 J								
Aroclor-1260 (PCB-1260)					12 J / 11 J						
beta&gamma-BHC (sum of isomers)											
Beta-BHC	5.6	7.1	3.7	4.4	11 J / 9.1 J	4.1	7.1	3.1	5.9	5.3 J	4.7
Delta-BHC	9.1	13	4.7	6.3	11 J / 12	0.28	7.3	1.6 J	5.2	4.8 J	7.4
Dieldrin											
Endosulfan I											
Endosulfan II					1.6 J / 2.3				0.053 J	0.12 J	
Endosulfan Sulfate			0.34	0.37 J	1.5 J						0.035 J
Endrin			0.034 J		1.9 / 1.3 J						1.4
Endrin ketone										0.067 J	
Gamma-BHC (Lindane)	0.32 J	4.8	2.1	2	7.4 J / 6.2 J	0.92	4.1	1.4 J	3.9	4.3 J	3.2
Gamma-Chlordane		.33 J	0.017 J						0.065	0.064 J	1.1 J
Heptachlor			0.092	0.19 J				0.71	0.15 J	0.23 J	
Heptachlor epoxide			0.29	0.13 J	1.6 J / 1.7 J	0.10 J		0.089 J	0.22 J	0.23 J	
Methoxychlor								0.036 J			

Notes:

D - Sample result is from a dilution

C - Sample result was confirmed

E - Sample result was greater than the highest calibration level

N - Validator qualifier-presumptive certainty, usually used when there is a large difference in dual column results

P - Lab qualifier used when there are large differences in dual column results

J - Estimated concentration

U - Not detected at the associated reporting limit

B - Detected in the blank sample

Blank - Not detected

PCBs - Polychlorinated Biphenyls

Table 3.6A

1140 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **					
	1144 (ft. AMSL)	1143 (ft. AMSL)	1142 (ft. AMSL)	1141 (ft. AMSL)	Tile Drain (ft. AMSL)	1140 (ft. AMSL)
03/02/15	570.45	569.98	569.57	565.74	561.70	563.85
06/01/15	571.34	571.13	570.63	566.11	561.70	563.71
09/02/15	570.18	569.91	569.78	566.26	561.70	564.15
12/01/15	569.78	569.26	569.14	565.91	561.70	564.19

B Wells

Date	Well **					
	1144 (ft. AMSL)	1143 (ft. AMSL)	1142 (ft. AMSL)	1141 (ft. AMSL)	Tile Drain (ft. AMSL)	1140 (ft. AMSL)
03/02/15	570.58	570.06	567.47	566.27	561.70	564.22
06/01/15	571.46	571.33	568.01	566.62	561.70	564.13
09/02/15	570.15	570.07	568.01	566.76	561.70	564.51
12/01/15	569.72	569.27	567.47	566.44	561.70	564.56

C Wells

Date	Well **			
	1144 (ft. AMSL)	1143 (ft. AMSL)	1142 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	570.27	568.74	566.07	561.70
06/01/15	571.28	569.74	566.29	561.70
09/02/15	570.02	569.21	566.48	561.70
12/01/15	569.52	568.43	566.17	561.70

D Wells

Date	Well **		
	1144 (ft. AMSL)	1143 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	569.19	567.82	561.70
06/01/15	570.08	568.39	561.70
09/02/15	569.61	568.44	561.70
12/01/15	568.76	567.83	561.70

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain
- ft. AMSL - Feet above mean sea level.

Table 3.6B

1150 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **			Tile Drain (ft. AMSL)
	1154 (ft. AMSL)	1153 (ft. AMSL)	1151 (ft. AMSL)	
03/02/15	571.51	568.63	567.00	561.85
06/01/15	572.43	569.25	566.68	561.85
09/02/15	572.22	568.84	566.86	561.85
12/01/15	572.21	569.62	567.22	561.85

B Wells

Date	Well **			Tile Drain (ft. AMSL)
	1154 (ft. AMSL)	1153 (ft. AMSL)	1151 (ft. AMSL)	
03/02/15	567.72	569.20	567.47	561.85
06/01/15	567.65	568.53	567.48	561.85
09/02/15	567.83	568.91	567.61	561.85
12/01/15	568.14	569.27	567.87	561.85

C Wells

Date	Well **			Tile Drain (ft. AMSL)
	1154 (ft. AMSL)	1153 (ft. AMSL)	1151 (ft. AMSL)	
03/02/15	568.06	570.50	568.23	561.85
06/01/15	568.00	570.77	569.22	561.85
09/02/15	568.08	569.82	568.06	561.85
12/01/15	568.07	570.44	568.04	561.85

D Wells

Date	Well **	
	1153 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	568.29	561.85
06/01/15	568.67	561.85
09/02/15	568.15	561.85
12/01/15	568.11	561.85

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
ft. AMSL - Feet above mean sea level.

Table 3.6C

1160 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **						
	10176 (ft. AMSL)	1165 (ft. AMSL)	1163 (ft. AMSL)	1162 (ft. AMSL)	1161 (ft. AMSL)	Tile Drain (ft. AMSL)	1160 (ft. AMSL)
03/02/15	569.41	571.64	568.49	569.18	565.23	560.60	565.05
06/01/15	568.91	572.23	568.41	570.07	565.11	560.60	564.70
09/02/15	568.52	572.15	568.63	569.63	565.12	560.60	564.81
12/01/15	569.06	571.74	568.78	569.24	565.37	560.60	565.28

B Wells

Date	Well **				
	10176 (ft. AMSL)	1165 (ft. AMSL)	1163 (ft. AMSL)	1161 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	569.47	570.95	569.18	566.69	560.60
06/01/15	568.99	571.25	570.02	566.72	560.60
09/02/15	568.60	571.02	569.77	566.90	560.60
12/01/15	569.09	570.83	569.37	567.05	560.60

C Wells

Date	Well **						
	10176 (ft. AMSL)	1165 (ft. AMSL)	1163 (ft. AMSL)	1162 (ft. AMSL)	1161 (ft. AMSL)	Tile Drain (ft. AMSL)	1160 (ft. AMSL)
03/02/15	568.54	571.78	569.44	569.41	568.73	560.60	DRY
06/01/15	568.17	572.25	570.58	570.17	569.42	560.60	DRY
09/02/15	568.47	572.03	570.16	569.85	569.26	560.60	566.64
12/01/15	568.70	571.65	569.58	569.54	568.97	560.60	566.52

D Wells

Date	Well **					
	10176 (ft. AMSL)	1165 (ft. AMSL)	1163 (ft. AMSL)	1162 (ft. AMSL)	1161 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	567.36	571.60	DRY	567.57	569.37	560.60
06/01/15	567.04	572.47	DRY	567.35	570.38	560.60
09/02/15	567.46	571.81	DRY	567.44	570.15	560.60
12/01/15	567.56	571.23	DRY	567.83	569.61	560.60

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
ft. AMSL - Feet above mean sea level.

Table 3.6D

1170 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **					1170 (ft. AMSL)
	1174 (ft. AMSL)	1173 (ft. AMSL)	1172 (ft. AMSL)	1171 (ft. AMSL)	Tile Drain (ft. AMSL)	
03/02/15	570.53	568.17	566.43	563.61	555.60	562.50
06/01/15	571.56	567.43	566.40	563.57	555.60	562.18
09/02/15	570.62	567.76	566.34	563.54	555.60	562.02
12/01/15	570.76	568.14	566.22	563.44	555.60	562.26

B Wells

Date	Well **					1170 (ft. AMSL)
	1174 (ft. AMSL)	1173 (ft. AMSL)	1172 (ft. AMSL)	1171 (ft. AMSL)	Tile Drain (ft. AMSL)	
03/02/15	569.95	569.79	568.61	562.57	555.60	563.15
06/01/15	570.42	569.26	568.39	562.30	555.60	568.10
09/02/15	570.72	569.49	568.08	562.42	555.60	564.11
12/01/15	570.30	569.76	568.01	562.53	555.60	571.75

C Wells

Date	Well **				Tile Drain (ft. AMSL)
	1174 (ft. AMSL)	1173 (ft. AMSL)	1172 (ft. AMSL)	1171 (ft. AMSL)	
03/02/15	570.45	571.05	568.82	561.61	555.60
06/01/15	569.63	571.67	569.06	561.26	555.60
09/02/15	570.13	571.16	569.04	561.34	555.60
12/01/15	570.54	570.75	568.81	561.48	555.60

D Wells

Date	Well **		
	1174 (ft. AMSL)	1173 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	568.64	571.08	555.60
06/01/15	567.94	571.68	555.60
09/02/15	567.96	570.83	555.60
12/01/15	568.47	570.82	555.60

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
ft. AMSL - Feet above mean sea level.

Table 3.6E

1180 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **				
	1184 (ft. AMSL)	1183 (ft. AMSL)	1181 (ft. AMSL)	Tile Drain (ft. AMSL)	1180 (ft. AMSL)
03/02/15	563.48	563.42	568.02	560.00	562.86
06/01/15	564.28	563.87	567.52	560.00	563.06
09/02/15	564.05	564.26	566.99	560.00	563.04
12/01/15	563.54	564.11	567.67	560.00	562.86

B Wells

Date	Well **				
	1184 (ft. AMSL)	1183 (ft. AMSL)	1181 (ft. AMSL)	Tile Drain (ft. AMSL)	1180 (ft. AMSL)
03/02/15	564.39	564.44	566.17	560.00	561.00
06/01/15	564.46	565.12	566.27	560.00	560.89
09/02/15	563.76	564.82	566.22	560.00	561.04
12/01/15	563.56	564.67	566.44	560.00	561.02

C Wells

Date	Well **				
	1184 (ft. AMSL)	1183 (ft. AMSL)	1181 (ft. AMSL)	Tile Drain (ft. AMSL)	1180 (ft. AMSL)
03/02/15	566.68	567.62	568.01	560.00	DRY
06/01/15	566.73	567.44	567.90	560.00	DRY
09/02/15	565.15	567.21	567.20	560.00	DRY
12/01/15	565.47	567.43	568.08	560.00	DRY

D Wells

Date	Well **		
	1184 (ft. AMSL)	1183 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	567.77	566.69	560.00
06/01/15	567.92	566.83	560.00
09/02/15	567.27	566.67	560.00
12/01/15	567.28	566.84	560.00

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
ft. AMSL - Feet above mean sea level.

Table 3.6F

1190 Series Piezometers Water Levels - 2015
Love Canal Long-Term Monitoring Program
Glenn Springs Holdings, Inc.

A Wells

Date	Well **					
	1194 (ft. AMSL)	1193 (ft. AMSL)	1192 (ft. AMSL)	1191 (ft. AMSL)	Tile Drain (ft. AMSL)	1190 (ft. AMSL)
03/02/15	563.66	565.16	563.69	565.33	554.80	564.99
06/01/15	564.41	565.45	564.42	565.28	554.80	565.88
09/02/15	563.94	565.32	564.02	565.34	554.80	564.35
12/01/15	563.58	565.07	563.60	565.22	554.80	564.71

B Wells

Date	Well **					
	1194 (ft. AMSL)	1193 (ft. AMSL)	1192 (ft. AMSL)	1191 (ft. AMSL)	Tile Drain (ft. AMSL)	1190 (ft. AMSL)
03/02/15	568.98	568.38	568.17	565.15	554.80	562.95
06/01/15	569.25	568.29	568.02	565.20	554.80	562.92
09/02/15	568.41	568.65	568.37	565.54	554.80	562.27
12/01/15	568.67	568.50	568.32	565.35	554.80	564.48

C Wells

Date	Well **				
	1194 (ft. AMSL)	1193 (ft. AMSL)	1192 (ft. AMSL)	1191 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	571.23	570.14	569.36	564.05	554.80
06/01/15	571.07	570.72	569.43	563.73	554.80
09/02/15	569.60	570.80	569.80	563.90	554.80
12/01/15	571.47	570.29	569.56	563.96	554.80

D Wells

Date	Well **		
	1194 (ft. AMSL)	1193 (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/15	571.91	570.51	554.80
06/01/15	572.48	571.41	554.80
09/02/15	570.60	571.09	554.80
12/01/15	571.64	570.62	554.80

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
ft. AMSL - Feet above mean sea level.

Appendices

Appendix A

2015 Institutional and Engineering Controls Certification Form

**New York State Department of Environmental
Conservation** Division of Environmental Remediation, 11th Floor
625 Broadway, Albany, New York 12233 Phone:
(518) 402-9553 Fax: (518) 402-9577 Website:
www.dec.ny.gov



December 4, 2015

Joseph Branch Project Coordinator
OCC/Glenn Springs Holdings, Inc.
7601 Old Channel Trail
P.O. Box 146
Montaque, MI 49437

RE: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Love Canal

Site No.: 932020

Site Address: 805 97th Street

Niagara Falls, NY 14304

Dear Joseph Branch:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 31, 2016**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
<http://www.dec.ny.gov/regulations/2586.html>

The signed certification forms should be sent to Brian Sadowski, Project Manager, at the following address:

New York State Department of Environmental Conservation
270 Michigan Avenue Buffalo, NY 14203-2915

Phone number: 716-851-7220 E-mail: brian.sadowski@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/enclosures

Brian Sadowski, Project Manager
Greg Sutton, Hazardous Waste Remediation Engineer, Region 9
John Pentilchuk, GHD Group



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. 932020

Site Name Love Canal

Site Address: 805 97th Street Zip Code: 14304

City/Town: Niagara Falls

County: Niagara

Site Acreage: 70.0

Reporting Period: January 1, 2015 to December 31, 2015

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Enclosure 1 Certification

Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- Where the only control is an Institutional Control on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner.
- Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

SITE NO. 932020

Description of Engineering and Institutional Controls

Boxes 3 and 4

<u>Parcel</u>	<u>Engineering Control</u>	<u>Institutional Control</u>
<u>232 Parcels</u>	Cover System Fencing/Access Control Groundwater Containment Leachate Collection Pump & Treat	Building Use Restriction Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan

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161.19-1-46

161.57-1-46

161.19-1-47

161.57-1-47

161.19-1-48

161.57-1-48

161.19-1-49

161.57-1-49

161.19-1-50

161.57-1-50

161.19-1-51

161.57-1-51

161.19-1-52

161.57-1-52

161.19-1-53

161.57-1-53

161.19-1-54

161.19-1-55

161.19-1-56

161.19-1-57

161.19-1-58

161.14-3-4

161.14-3-6

161.14-3-7

161.14-3-8

161.14-3-9

161.14-3-10

161.14-3-12

161.14-3-13

161.14-3-14

161.14-3-15

161.14-3-16

161.14-3-17

161.14-3-18

161.14-3-19

161.14-3-20

161.14-3-21

161.14-3-22

161.14-3-23

161.14-3-24

161.14-3-25

161.14-3-26

161.14-3-27

161.14-3-28

161.14-3-29

161.14-3-30

161.14-3-31

161.14-3-32

161.14-3-33

161.14-3-34

161.14-3-35

161.14-3-36

161.14-3-37

161.14-3-38

161.14-3-39

161.14-3-40

161.14-3-41

161.14-3-42

161.14-3-43

161.14-3-5

161.14-3-11

161.18-1-18

Periodic Review Report (PRR) Certification Statements

Box 5

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☐ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☐ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 932020

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2 and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joseph Branch at 7601 Old Channel Trail, Montague, MI 49437
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner or Remedial Party Rendering Certification

1/28/2016
Date

IC/EC CERTIFICATIONS

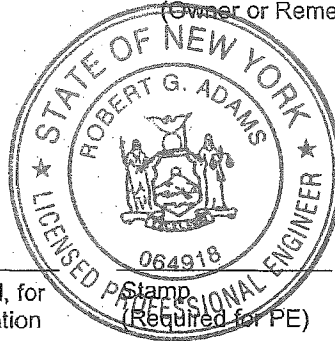
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ROBERT G. ADAMS at GHD CONSULTING SERVICES INC.
print name 285 DELAWARE AVE, BUFFALO NY
print business address 14202

am certifying as a Qualified Environmental Professional for the REMEDIAL PARTY
(Owner or Remedial Party)



Robert G. Adams

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

01/27/16
Date

Stamp
(Required for PE)

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;

1. whether all requirements of each plan were met during the reporting period
2. any requirements not met
3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals

1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix B

2015 Semiannual Inspection Forms



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semi-Annual Barrier Drain Manhole Inspection

Date 10/7/2015

Sector	MH No.	Location	Water Y/N	Level Feet	Debris Y/N	Structure OK	Cleaning Y/N	Comments
North Colvin	MH-10A	NW	N	0	N	Y	N	
	MH-8A	NW	Y	0	N	Y	N	
	MH-6C	NW	Y	1"	Y	Y	N	Some built up sludge
	MH-6B	NW	Y	2"	Y	Y	N	Some built up sludge
	MH-6A	NW	Y	2"	Y	Y	N	Some built up sludge
	PC-2A	NW	Y	1.5'	N	Y	N	
	MH-4A	NW	Y	1"	N	Y	N	
	MH-2A	NW	Y	1"	N	Y	N	
	MH-2	SW	Y	0	Y	Y	N	
	MH-4	SW	Y	1"	Y	Y	N	
	MH-6	SW	Y	1"	N	Y	N	
	MH-8/PC2	SW	Y	1.2'	N	Y	N	
	MH-10	SW	Y	2"	Y	Y	N	
South Frontier	MH-12	SW	Y	2"	N	Y	N	
	MH-14	SW	Y	2"	N	Y	N	
North Colvin								
	NH-17A	NE	N	0	N	Y	N	
	MH-15A	NE	Y	2"	N	Y	N	
	MH-13A	NE	Y	2"	Y	Y	N	
	PC1A	NE	Y	1.8'	Y	Y	N	
	MH-11A	NE	Y	2"	N	Y	N	
	MH-9A	NE	Y	1"	N	Y	N	
	MH-7A	NE	Y	1"	Y	Y	N	
	MH-5A	NE	N	0	N	Y	N	
	MH-3A	NE	Y	1"	N	Y	N	
	MH-1A	NE	Y	1"	N	Y	N	
	MH-1	SE	N	0	N	Y	N	
	MH-3	SE	Y	1"	Y	Y	N	
	MH-5	SE	N	0	N	Y	N	
	MH-7/PC1	SE	Y	2.0'	N	Y	N	
	MH-9	SE	Y	1"	N	Y	N	
	MH-11	SE	Y	1"	Y	Y	N	
South Frontier	MH-13	SE	Y	1"	N	Y	N	

Signature: Darrell Crockett



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semi-Annual Barrier Drain Manhole Inspection

Date 6/22/2015

Sector	MH No.	Location	Water Y/N	Level Feet	Debris Y/N	Structure OK	Cleaning Y/N	Comments
North Colvin	MH-10A	NW	N	0	N	Y	N	
	MH-8A	NW	Y	1"	N	Y	N	
	MH-6C	NW	Y	2"	Y	Y	N	Some built up sludge
	MH-6B	NW	Y	2"	Y	Y	N	Some built up sludge
	MH-6A	NW	Y	2"	Y	Y	N	Some built up sludge
	PC-2A	NW	Y	1.9'	N	Y	N	
	MH-4A	NW	Y	2"	N	Y	N	
	MH-2A	NW	Y	2"	N	Y	N	
	MH-2	SW	Y	0	Y	Y	N	
	MH-4	SW	Y	1"	Y	Y	N	
	MH-6	SW	Y	2"	N	Y	N	
	MH-8/PC2	SW	Y	2'	N	Y	N	
	MH-10	SW	Y	2"	Y	Y	N	
South Frontier	MH-12	SW	Y	2"	N	Y	N	
	MH-14	SW	Y	2"	N	Y	N	
North Colvin								
	NH-17A	NE	N	0	N	Y	N	
	MH-15A	NE	Y	2"	N	Y	N	
	MH-13A	NE	Y	1"	Y	Y	N	
	PC1A	NE	Y	1.9'	Y	Y	N	
	MH-11A	NE	Y	2"	N	Y	N	
	MH-9A	NE	Y	1"	N	Y	N	
	MH-7A	NE	Y	1"	Y	Y	N	
	MH-5A	NE	N	0	N	Y	N	
	MH-3A	NE	Y	1"	N	Y	N	
	MH-1A	NE	Y	1"	N	Y	N	
	MH-1	SE	N	0	N	Y	N	
	MH-3	SE	Y	2"	Y	Y	N	
	MH-5	SE	N	0	N	Y	N	
	MH-7/PC1	SE	Y	2.4'	N	Y	N	
	MH-9	SE	Y	2"	N	Y	N	
	MH-11	SE	Y	2"	Y	Y	N	
	MH-13	SE	Y	2"	N	Y	N	

Signature: Darrell Crockett



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 10/8/2015
Inspector: _____

Weather: Sunny 75°F

Check the Following as Appropriate:

Visual Inspection of chamber piping
Verification of level probe performance
Inspection of pump chamber integrity
Inspection of pump chamber security

Wells	Satisfactory	Needs Maintenance
PC-1	☒	
PC-2	☒	
PC-3	☒	
PC-1A	☒	
PC-2A	☒	
PC-3A	☒	

Comments:

Signature: 



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 6/22/15
 Inspector: Danell C. Smith

Weather: Sunny 70°F

Check the Following as Appropriate:

Visual Inspection of chamber piping
 Verification of level probe performance
 Inspection of pump chamber integrity
 Inspection of pump chamber security

Wells	Satisfactory	Needs Maintenance
PC-1	☒	
PC-2	☒	
PC-3	☒	
PC-1A	☒	
PC-2A	☒	
PC-3A	☒	

Comments:

Signature: Danell C. Smith



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL LANDFILL CAP AND FENCE INSPECTION

Site: Love Canal

Date: 6/22/2015

Inspector: D. Grady

Weather: Sunny 70° F

Inspection Item

Inspect For

1. Landfill Cover

- signs of erosion
- exposure of the HDPE Liner
- areas of insufficient grass coverage
- signs of dead/dying grass
- presence of washouts
- settlement causing ponding of water
- signs of slope instability
- signs of burrowing by animals
- presence of rooting trees

Y N

Y N

Y N

Y N

Y N

Y N

Y N

Y N

checked

2. Perimeter Fence

- breaches in fence
- gates secure
- locks in place
- missing or illegible signage

Y N

Y N

Y N

Y / N

Comments/Remarks

(Note: If repair/maintenance is recommended, describe its location/extent below)



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL LANDFILL CAP AND FENCE INSPECTION

Site: Love Canal
Date: 10/8/2015
Inspector: D. Crockett

Weather: Sunny 75°F

Inspection Item Inspect For

1. Landfill Cover

- signs of erosion Y/N
- exposure of the HDPE Liner Y/N
- areas of insufficient grass coverage Y/N
- signs of dead/dying grass Y/N
- presence of washouts Y/N
- settlement causing ponding of water Y/N
- signs of slope instability Y/N
- signs of burrowing by animals Y/N
- presence of rooting trees Y/N

2. Perimeter Fence

- breaches in fence Y/N
- gates secure Y/N
- locks in place Y/N
- missing or illegible signage Y/N

Comments/Remarks

(Note: If repair/maintenance is recommended, describe its location/extent below)

There is settlement on the landfill in various areas most notably near P-1 on the roadway

Appendix C

Niagara Falls Water Board Wastewater Discharge Permit #44



PAGE 1 OF 15
PERMIT NO. 44

NIAGARA FALLS WATER BOARD
WASTEWATER FACILITIES
SIGNIFICANT INDUSTRIAL USER
WASTEWATER DISCHARGE PERMIT

PERMIT NO. 44 Glenn Springs Holdings, Inc. -
Love Canal Leachate Treatment Facility

In accordance with all terms and conditions of the Niagara Falls Water Board Regulations Part 1960 and also with all applicable provisions of Federal and State Law or regulation:

Permission is Hereby Granted To: Glenn Springs Holdings, Inc. -
Love Canal Leachate Treatment Facility

Located at: 805 - 97th Street, Niagara Falls, NY 14304

Classified by SIC No(s): 4952

For the contribution of wastewater, into the Niagara Falls Water Board Publicly-Owned Treatment Works (POTW).

Effective this 9th day of, January 2015
To Expire this 9th day of, January 2020

A handwritten signature in black ink, appearing to read "Paul J. Drof".

for

Paul J. Drof
Executive Director of Niagara Falls Water Board

Signed this 31TH day of December, 2014

DISCHARGE IDENTIFICATION

[illegible]

**WASTEWATER DISCHARGE PERMIT
REQUIREMENTS FOR:**

**ACTION
REQUIRED**

**REQUIRED DATE
OF SUBMISSION**

A. Discharges to the Niagara Falls Water Board (NFWB) Sewer

1.	Identification of all discharges to the NFWB Sewer System on a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/24/14
2.	Identification of each contributing waste stream to each discharge to the NFWB Sewer System clearly marked on, or referenced to, a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/24/14
3.	Elimination of all uncontaminated discharges to the NFWB Sewer System. All uncontaminated flows should be clearly identified on a current sewer map certified by a New York State licensed professional engineer.	N/A	
4.	Establishment of a control manhole that is continuously and immediately accessible for each discharge to the NFWB Sewer System.	None	Previously Established

B. Wastewater Discharge Management Practices

1.	Identification of a responsible person(s) (day to day and in emergencies).	None	Performed by NFWB

C. Slug Control Plan**

Pursuant to Section 40 CFR 403.12 (v) of the Federal Pretreatment Standards the Niagara Falls Water Board will evaluate the permittee, a minimum of once every two years for the need for a "Slug Control Plan." If a plan is required by the Niagara Falls Water Board, then the plan will contain, at a minimum, the following elements:

- a) Description of discharge practices, including non-routine batch discharges;
- b) Description of stored chemicals;
- c) Procedures for immediately notifying the POTW of slug discharges, including any discharge that would violate a prohibition under 40 CFR 403.5 (b), with procedures for follow-up written notification within five days;
- d) If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment necessary for emergency response.

**This section applies to all pollutants limited by the Niagara Falls Water Board SPDES Permit and all prohibited wastewater discharges (See Section 1960.5 of the Niagara Falls Water Board Wastewater Regulations).

D. General Wastewater Discharge Permit Conditions

1. Flow monitoring should be performed concurrently with any Wastewater Discharge Permit sampling and should be reported at the same time as analytical results. If it is not feasible to perform flow monitoring, an estimate of flow (method of estimated flow preapproved by the Niagara Falls Water Board) should be submitted with the analytical results.
2. All sampling for billing and pretreatment compliance purposes will be coordinated through the Niagara Falls Water Board Industrial Monitoring Coordinator.
3. All analysis must be performed by a State certified laboratory using analytical methods consistent with 40 CFR 136 and quality control provisions as required by the Niagara Falls Water Board Laboratory Technical Director. The permittee will report the results as directed in Section G of this permit. Results should be reported using the Method Detection Limit (MDL). Reporting results less than MDL will be indicated in the report by a less than sign (<) followed by the numeric MDL concentration reported by the laboratory. In these cases the pollutant load will be calculated and reported as zero (0). The MDL will be defined as the level at which the analytical procedure referenced is capable of determining with a 99% probability that the substance is present. The value is determined in reagent water. The precision at this level is +/- 100%.
4. An estimate of relative production levels for wastewater contributing processes at the time of any pretreatment compliance sampling will be submitted upon request of the Director of Niagara Falls Water Board - Wastewater Facilities.
5. All samples will be handled in accordance with EPA approved methods. Chain of Custody records will be submitted with all sampling results.
6. All conditions, standards and numeric limitations of Niagara Falls Water Board Wastewater Regulations are hereby incorporated into this permit by reference. These conditions, standards and numeric limitations must be complied with. Failure to comply with any part of said Regulations constitutes a violation and is subject to enforcement actions(s) described in Section 1960.9 of said Regulations, and in the Niagara Falls Water Board Pretreatment Administrative Procedure Number Five (5) - "Enforcement Response Guide." In the event of a violation, including slug discharges or spills, the Niagara Falls Water Board must be notified immediately by phone and confirmed by letter within five (5) working days.

Any person adjudicated of violating any provision in the Niagara Falls Water Board Wastewater Regulations shall be assessed a fine in the amount of up to \$10,000. This amount is available for each violation, and each day of a violation is a separate incident for which penalties may be sought.

6. The person violating any of the provisions of the Niagara Falls Water Board Wastewater Regulations will be liable for any expense, loss, or damage occasioned by reason of such violation. The expense, loss or damage will be taken to be the extent determined by the Director.

In addition, any person who knowingly makes any false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to the Niagara Falls Water Board Wastewater Regulations, or Wastewater Discharge Permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under the Niagara Falls Water Board Wastewater Regulations will, upon conviction be punished by a fine up to \$5,000. Furthermore, the Niagara Falls Water Board may recover reasonable attorney's fees, court costs, court reporting fees, and other expenses of litigation by appropriate suit at law against the person found to have violated applicable laws, orders, rules and permits required by the Niagara Falls Water Board Wastewater Regulations.

7. In accordance with Federal Regulation CFR 40, Part 403.12(g), any exceedance of a numeric limitation noted by the SIU must be re-sampled, analyzed and resubmitted to the Niagara Falls Water Board - Wastewater Facilities within 30 days.

Specifically, if any limit that is listed in Section F of this permit is exceeded, then the permittee will undertake a short term monitoring program for that pollutant. Samples will be collected identical to those required for routine monitoring purposes and will be collected on each of at least two (2) operating days and analyzed. Results will be reported in both concentration and mass, and will be submitted within 30 days of becoming aware of the exceedance.

8. Sampling frequency for any permitted compounds may be increased beyond the requirements set forth in Section F and G of this permit. If the permittee monitors (sample and analysis) more frequent than required under this permit, **all** results of this monitoring must be reported.
9. As noted in Section 1960.5g of the Niagara Falls Water Board Wastewater Regulations, "Personnel as designated by the Director will be permitted at any time for reasonable cause to enter upon all properties served by the Niagara Falls Water Board for the purpose of, and to carry out, inspection of the premises, observation, measurement, sampling and testing, in accordance with provisions of the Regulations."
10. As noted in Section 1960.5c of the Niagara Falls Water Board Wastewater Regulations, significant changes in discharge characteristics or volume must be reported immediately to the Niagara Falls Water Board - Wastewater Facilities.
11. As noted in Section 1960.6b of the Niagara Falls Water Board Wastewater Regulations, samples required to be collected via a 24-hour composite sampler must be retained refrigerated for an additional 24 hour plus un-refrigerated an additional 48 hours (total 72 hours).

12. As noted in Section 1960.5d of the Niagara Falls Water Board Wastewater Regulations, all "SIU's will keep on file for a minimum of three years, all records, flow charts, laboratory calculations or any other pertinent data on their discharge to the Niagara Falls Water Board - Wastewater Facilities."
13. As noted in Section 1960.6g of the Niagara Falls Water Board Wastewater Regulations, "Permits are issued to a specific user for a specific monitoring station. A permit will not be reassigned or transferred without the approval of the Director which approval will not be unreasonably withheld. Any succeeding owner or user to which a permit has been transferred and approved will also comply with all the terms and conditions of the existing permit."
14. The Annual Average Limitation is equivalent to the specific SIU allocation, and will be defined as the permissible long term average discharge of a particular pollutant. These limitations are listed in Section F of this permit. The computation of the Annual Average will be as follows; for each compound listed in Section G of this permit, the Annual Average will be the average of the present monitoring quarter and three previous quarters data.
15. The Daily Maximum Limitation will be defined as the maximum allowable discharge on anyone day. The Daily Maximum Limitation will allow for periodic short term discharge fluctuations. These specific limitations are listed in Section F of this permit.
16. Enforcement of the Annual Average Limitation will be based on the reported average of the last four quarters data vs. the Annual Average Limited listed in Section F of this permit. Enforcement of the Daily Maximum Limitation will be based on individual analysis results vs. the Daily Maximum Limit listed in Section F of this permit. These results may be obtained from self monitoring (Section G), City of Niagara Falls Verification, incident investigation or billing samples.
17. The Niagara Falls Water Board Administrative Procedure Number 6 "Procedure for Determination and Use of Local Limits" lists all pollutants noted in the Niagara Falls Water Board – Wastewater Facilities SPDES Permit. The limits defined in the procedure are values which are based on the quantity of substances discharged which can be easily related to the Treatment Plant's removal capacity.
The pollutants listed in this procedure that are not specifically listed in Section F and G of this permit may be present in the permittee's wastewater discharge, but at levels which do not require specific permit limitations. Consequently, if any of the limits listed in this procedure, for pollutants not identified in Section F and G of this permit, are exceeded then the permittee will undertake a short-term, high intensity monitoring program for that pollutant. Samples identical to those required for routine monitoring purposes will be collected on each of at least three operating days and analyzed. Results will be expressed in terms of both concentration and mass, and will be submitted no later than the end of the third month following the month when the limit was first exceeded.

If levels higher than the limit are confirmed, the permit may be reopened by the Niagara Falls Water Board for consideration of revised permit limits.

E. Specific Wastewater Discharge Permit Conditions

1. Billing Agreement:

- a) Flow quantities will be derived from the Wastewater Treatment Facility flow meter. The results of the daily flow readings will be compiled and submitted in a Monthly Flow Report by the 15th day of the following month.
- b) Charges for TSS, SOC and Substances of Concern shall be developed based on Quarterly Self Monitoring data.

2. Love Canal Leachate Treatment Facility (LCLTF)

The Niagara Falls Water Board agrees to accept wastewater processed from the Glenn Springs Holdings (GSH) LCLTF. These waters in addition to Love Canal wastewater shall include wastewater from the 102nd Street remedial site. This approval is subject to the following conditions:

- a) The LCLTF shall be properly operated and maintained at all times.
- b) To ensure proper operation GSH shall ensure sufficient feed, inter-stage (breakthrough), and effluent analysis to ensure timely carbon changes. Treatment levels of 10 ug/l shall be achieved and verified with quarterly composite sample analysis for the following compounds: trichloroethylene, tetrachloroethylene, monochlorotoluene, monochlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, hexachlorocyclohexanes and hexachlorobenzene.

E. Specific Wastewater Discharge Permit Conditions

2. Love Canal Leachate Treatment Facility (LCLTF)

Continued

- c) The issuance of this approval is based on GSH's previous assertions that there is no reason to anticipate the presence of tetrachlorodibenzo-p-dioxins in the discharge from the treatment facility. The Niagara Falls Water Board hereby reserves the right to collect samples from the treatment facility effluent and analyze such wastewaters for their chemical constituents, including tetrachlorodibenzo-p-dioxins. If such analysis indicates the presence of tetrachlorodibenzo-p-dioxins, this approval may be withdrawn. If at anytime, the Niagara Falls Water Board determines on any basis that the discharge of these wastewater to the POTW is interfering with the operation of that facility, the Niagara Falls Water Board will direct GSH to discontinue the discharge.
- d) These pretreated wastewaters shall be discharged to the POTW via Outfall MS # 1.
- e) Periodically wet weather flow in the area around LCLTF results in surcharged sewers. The resultant surcharge requires overflow at combined sewer and storm sewer overflow points. Other points in the sewer shed require manual bypass pumping. Consequently, to minimize this overflow, the Niagara Falls Water Board will require the permittee to cease discharge from the LCLTF during these surcharge events.

A notification procedure has been established by the Niagara Falls Water Board to formalize the communication between the Niagara Falls Water Board and the permittee to halt and resume the LCLTF discharge. This procedure by reference is hereby incorporated as a condition of this permit.

F. Discharge Limitations & Monitoring Requirements

During the Period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall(s) will be limited and monitored by the permittee as specified below.

OUTFALL NUMBER/ EFFLUENT PARAMETER	DISCHARGE LIMITATIONS		UNITS	MINIMUM MONITORING REQUIREMENTS	
	ANNUAL AVERAGE	DAILY MAXIMUM		MEASUREMENT FREQUENCY	SAMPLE TYPE
#1 Flow	0.3	0.3	MGD	Continuous	4
#1 Total Suspended Suspended	25	50	lbs/d	1/Qtr.	1
#1 Soluble Organic Carbon	50	75	lbs/d	1/Qtr.	1
#1 Volatile - Priority Pollutants (See Attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Acid Extractable - Priority Pollutants (See attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Base/Neutral - Priority Pollutants (See attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
# 1 Pesticides - Hexachlorocyclohexanes	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Total Phenols	MONITOR	ONLY	lbs/d	1/Qtr.	1

F. **DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS**
CONTINUED

SAMPLE TYPE FOOTNOTES

- (1) Each sample will consist of four (4) grabs collected spaced throughout the **batch** discharge, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.
- (2) Each sample will consist of four (4) grabs collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.
- (3) Each sample will consist of a 24-hour, **flow proportioned** composite sample collected from the monitoring point.
- (4) Flow will be monitored continuously with the use of a water meter or another acceptable flow metering device.
- (5) Each sample will consist of a 24-hour, **time proportioned** composite sample collected from the monitoring point.
- (6) Reserved
- (7) Same as (3), however, five (5) samples will be collected per quarter from the monitoring point and analyzed by and at the Niagara Falls Water Board's expense.
- (8) Four (4) grab samples will be collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. Each grab will be **analyzed and reported separately**.
- (9) A grab sample is defined as an aliquot collected over a period of not more than 15 minutes.

G. Discharge Monitoring Reporting Requirements

During the period beginning the effective date of this permit and lasting until its expiration date, discharge monitoring results will be summarized and reported by the permittee; Monthly - 14 days after monitoring period, Quarterly - by the last day of the monitoring period = February 28, May 31, August 31, November 30. Semiannual reports will be submitted on the last day of the monitoring period = February 28, August 31. The annual average for each parameter listed in Section F, will be computed and reported quarterly. The individual sample analysis for present quarter will also be reported quarterly unless directed otherwise in this permit.

[illegible]

Discharge Monitoring Compounds

Volatile	Base/Neutrals Extractables
Benzene	Dimethyl Phthalate
Carbon Tetrachloride	Butyl Benz Phthalate
Chlorodibromomethane	Di-N-Butyl Phthalate
Monochlorobenzene	Di-N-Octyl Phthalate
Dichlorobromomethane	Diethyl Phthalate
Chloroform	Nitrosodiphenylamine
Dichloroethylenes	Dichlorobenzenes
Bromoform	Dichlorotoluene
Dichloropropylenes	Acenaphthlene
Ethylbenzene	Fluoranthene
Tetrachloroethanes	Chrysene
Tetrachloroethylene	Napthalene
Toluene	Benzo (a) Anthracene
Trichloroethanes	Pyrene
Trichloroethylene	Trichlorobenzene
Methylene Chloride	Trichlorotoluene
Vinyl Chloride	Hexachlorobutadiene
Monochlorotoluenes	Tetrachlorobenzene
Monochlorobenzotrifluoride	Hexachlorocyclopentadiene
	Hexachlorobenzene
	Dichlorobenzotrifluoride

Discharge Monitoring Compounds

Acids	Pesticides
Monochlorophenol	Alpha, beta, delta, gama – hexachlorocyclohexane
Dichlorophenol	
Monochlorocresol	
Trichlorophenol	
Pentachlorophenol	

Conventionals	
Total Phenols	
Total Suspended Solids	
Soluble Organic Carbon	

H. Comments/Revisions

Appendix D

Love Canal Annual Groundwater Sampling Schedule



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Clint Babcock, Ralph Schupp
FROM: Jane Pietraszek-Polovich/adh/8 *JPP*
C.C.: Darrell Crockett, Dennis Hoyt, John Pentilchuk,
Dave Tyran, Filing
RE: Love Canal Annual Groundwater Sampling Schedule

At the request of Glenn Springs Holdings, Inc. (GSH), Conestoga-Rovers & Associates (CRA) has prepared the following memo to document the Annual Groundwater Sampling schedule for the Love Canal Facility in Niagara Falls, New York (Site).

Correspondence from Mr. Brian Sadowski of the New York State Department of Environmental Conservation (NYSDEC) sent to CRA and GSH on March 25, 2009 (email attached) states that it is no longer necessary for the NYSDEC to specifically list the wells to be sampled each year at the Site, since the annual and alternating (Group I and Group II) wells have remained the same throughout the years. From 1994 through 2008, the NYSDEC provided GSH with a list of wells to be sampled each year. The March 25, 2009 email from Mr. Sadowski stated that the NYSDEC will no longer provide such a list. Therefore, Mr. Sadowski suggested that the wells sampled during the 2007 annual groundwater monitoring event be used for the 2009 annual groundwater monitoring event, to remain consistent with the Long-Term Monitoring Program. The 2007 (and therefore 2009) monitoring wells represent the Group I wells (Table 1). The 2008 (and therefore 2010) monitoring wells represent the Group II wells. In addition, there are select overburden and bedrock wells that are to be sampled annually (Table 1).

Mr. Sadowski went on to further state that GSH must "ensure that the monitoring network and well selection provide adequate overburden and bedrock coverage that returns the data necessary for the evaluation of the remediation, and that the NYSDEC feels that the selection of the 2007 wells will meet those objectives." Mr. Sadowski indicated that GSH can enhance upon the objective by choosing other wells if they wish. Once the well selection is made for the annual event, GSH is to provide the NYSDEC with the monitoring well numbers. Any changes in the well selection must be accompanied with reasons for the addition/deletion. Based on a review of the data for the wells suggested by NYSDEC, GSH agreed to sample the wells in Table 1 for future sampling events. This was communicated to the NYSDEC through a phone call to Mr. Sadowski on June 7, 2010, and documented in the attached email dated June 8, 2010. The NYSDEC is to be notified when the annual monitoring will take place for oversight purposes and to split samples if desired. A 2-week notice of the annual groundwater monitoring event is preferred by the NYSDEC.

TABLE 1
SAMPLE SCHEDULE
LOVE CANAL FACILITY
LONG-TERM MONITORING PROGRAM
NIAGARA FALLS, NEW YORK

<i>Annual Wells</i>	<i>Biannual Wells</i>	
<i>Bedrock Wells</i>	<i>Overburden Wells Group I (2009)</i>	<i>Overburden Wells Group II (2010)</i>
3257	3151	7115
5221	7120	7125
6209	7155	8115
7205	7161	8125
8210	8110	9105
9205	8120	9113
9210	8130	9118
10205	8140	10178A
10210A	9110	
10210B	9115	
10210C	9120	
10215	9125	
10225A	9130	
10225B	9140	
10225C	10105	
10270	10147	
10272	10174A	
10278		
<i>Overburden Wells</i>		
7130		
7132		
8106		
10135		

From: Crockett, Darrell
Sent: Wednesday, March 25, 2009 12:06 PM
To: Pentilchuk, John
Subject: 9954 FW: Love Canal Annual 2009 Sampling
John,

Please let me know how you'd like for me to proceed. I have the 2007 sampling event data.

Thanks
Darrell

From: Brian Sadowski [mailto:bpsadows@gw.dec.state.ny.us]
Sent: Wed 3/25/2009 11:56 AM
To: Crockett, Darrell
Cc: Hoyt, Dennis; Clint_Babcock ext
Subject: Re: Love Canal Annual 2009 Sampling

Darrell,

Your contact and this response will be considered as our pre-sampling conference as stated on p.6. in Section 2.0 Monitoring Requirements of the February 19, 2001 Sampling Manual. Over the last fourteen years the Department has specifically listed the wells to sample and believe that is no longer necessary as the annual and alternating wells have stayed the same. GSHI and/or MSRM has clearly demonstrated their ability to operate, maintain and monitor the site. With the addition of CRA; there is an added layer of technological security and professional environmental judgement. With that said, the Department will not provide a specific list of wells to monitor. However, the suggested wells are the wells that were sampled in 2007 to remain consistent with the LTM program schedule listed on Table 2.2 of the Sampling Manual. The monitoring schedule is flexible. OXY and CRA is to ensure that the monitoring network and well selection provides adequate overburden and bedrock coverage that returns the data necessary for the evaluation of the remediation. The Department feels that the selection of the 2007 wells will meet those objectives. OXY and CRA can enhance upon the objectives by choosing other wells if they wish. When a decision is made by CRA on the well selection, please provide the Department with the well numbers. A simple return "as same as 2007 or 2007 with the addition, deletion or substitution of well #" will suffice. If changes are made, please provide reasoning. Finally, the Department will not be splitting this year. But, will need to be given notice when monitoring will take place for oversight purposes. Thank you.

>>> "Crockett, Darrell" <dcrockett@craworld.com> 3/18/2009 8:05 AM >>>
Hello Brian,

At your convenience would you please provide me with a 2009 Annual sampling well list including the split samples.

Thank You
Darrell Crockett
716/998-5804

From: Polovich, Jane

Sent: Tuesday, June 08, 2010 9:49 AM

To: Filing

Subject: 9954: Love Canal Annual Sampling - Conversation with Brian Sadowski NYSDEC

I spoke with Brian Sadowski on Monday June 7, 2010 to confirm the annual groundwater sampling locations at Love Canal. As per Brians email of March 25 2009 to Darrell Crockett, the 2007 wells selected by the DEC were to be the ones sampled in 2009 (these represent the Group I wells). I confirmed with Mr. Sadowski that the 2008 wells selected by the DEC would be teh wells sampled in 2010 (representing the Group II wells). These Group I and Group II wells will from this point forward be the wells sampled for the alternating annual groundwater sampling events at Love Canal. Mr Sadowski went further to say that GSH may add or delete wells from the sampling but must provide a reason to the DEC prior to sampling for the additions / deletions. CRA documented this change in the sampling program in a internal memo.

Jane Polovich

Conestoga-Rovers & Associates (CRA)

2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Phone: 716.297.6150

Fax: 716.297.2265

Email: jpolovich@CRAworld.com

www.CRAworld.com

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Appendix E

Laboratory Raw Data Package

June through July 2015

ANALYTICAL REPORT

Job Number: 180-45199-1

Job Description: 9954, Love Canal Annual

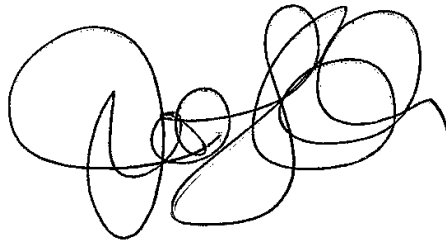
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/7/2015 4:26 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/07/2015

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45199-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/18/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.5 C.

VOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILES

Sample WG-9954-061715-DJT-002 (180-45199-4) had surrogate Terphenyl-d14 recover high and outside of the control limits. As the recovery was high and the sample was non-detect for all target compounds, all data was reported.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

The laboratory control standard/laboratory control duplicate were inadvertently not spiked with surrogate solution. All samples and the method blank had the surrogates recover within the control limits and the spike recoveries were within the control limits. All data was reported.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Client Sample ID: LCTRIP-061715 Lab Sample ID: 180-45199-1

No Detections.

Client Sample ID: WG-9954-061715-DJT-003 Lab Sample ID: 180-45199-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	8.5	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-061715-DJT-001 Lab Sample ID: 180-45199-3

No Detections.

Client Sample ID: WG-9954-061715-DJT-002 Lab Sample ID: 180-45199-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-061715

Date Collected: 06/17/15 00:00

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/19/15 19:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/19/15 19:33	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 19:33	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/19/15 19:33	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			06/19/15 19:33	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/19/15 19:33	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/19/15 19:33	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/19/15 19:33	1
2-Hexanone	ND		5.0	0.57	ug/L			06/19/15 19:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/19/15 19:33	1
Acetone	ND		20	5.0	ug/L			06/19/15 19:33	1
Benzene	ND		5.0	0.99	ug/L			06/19/15 19:33	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/19/15 19:33	1
Bromoform	ND		5.0	1.1	ug/L			06/19/15 19:33	1
Bromomethane	ND		5.0	1.6	ug/L			06/19/15 19:33	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/19/15 19:33	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/19/15 19:33	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/19/15 19:33	1
Chloroethane	ND		5.0	0.75	ug/L			06/19/15 19:33	1
Chloroform	ND		5.0	1.0	ug/L			06/19/15 19:33	1
Chloromethane	ND		5.0	1.4	ug/L			06/19/15 19:33	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/19/15 19:33	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/19/15 19:33	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/19/15 19:33	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/19/15 19:33	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/19/15 19:33	1
Styrene	ND		5.0	0.64	ug/L			06/19/15 19:33	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/19/15 19:33	1
Toluene	ND		5.0	0.85	ug/L			06/19/15 19:33	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/19/15 19:33	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/19/15 19:33	1
Trichloroethene	ND		5.0	0.80	ug/L			06/19/15 19:33	1
Vinyl acetate	ND		5.0	0.86	ug/L			06/19/15 19:33	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/19/15 19:33	1
Xylenes, Total	ND		10	1.7	ug/L			06/19/15 19:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/19/15 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 123		06/19/15 19:33	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/19/15 19:33	1
Dibromofluoromethane (Surr)	102		80 - 120		06/19/15 19:33	1
Toluene-d8 (Surr)	112		80 - 120		06/19/15 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-061715-DJT-003

Date Collected: 06/17/15 14:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/19/15 18:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/19/15 18:20	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 18:20	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/19/15 18:20	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			06/19/15 18:20	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/19/15 18:20	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/19/15 18:20	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/19/15 18:20	1
2-Hexanone	ND		5.0	0.57	ug/L			06/19/15 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/19/15 18:20	1
Acetone	ND		20	5.0	ug/L			06/19/15 18:20	1
Benzene	ND		5.0	0.99	ug/L			06/19/15 18:20	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/19/15 18:20	1
Bromoform	ND		5.0	1.1	ug/L			06/19/15 18:20	1
Bromomethane	ND		5.0	1.6	ug/L			06/19/15 18:20	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/19/15 18:20	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/19/15 18:20	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/19/15 18:20	1
Chloroethane	ND		5.0	0.75	ug/L			06/19/15 18:20	1
Chloroform	ND		5.0	1.0	ug/L			06/19/15 18:20	1
Chloromethane	ND		5.0	1.4	ug/L			06/19/15 18:20	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/19/15 18:20	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/19/15 18:20	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/19/15 18:20	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/19/15 18:20	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/19/15 18:20	1
Styrene	ND		5.0	0.64	ug/L			06/19/15 18:20	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/19/15 18:20	1
Toluene	ND		5.0	0.85	ug/L			06/19/15 18:20	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/19/15 18:20	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/19/15 18:20	1
Trichloroethene	ND		5.0	0.80	ug/L			06/19/15 18:20	1
Vinyl acetate	ND		5.0	0.86	ug/L			06/19/15 18:20	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/19/15 18:20	1
Xylenes, Total	ND		10	1.7	ug/L			06/19/15 18:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/19/15 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		62 - 123		06/19/15 18:20	1
4-Bromofluorobenzene (Surr)	90		75 - 120		06/19/15 18:20	1
Dibromofluoromethane (Surr)	90		80 - 120		06/19/15 18:20	1
Toluene-d8 (Surr)	108		80 - 120		06/19/15 18:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-061715-DJT-001

Date Collected: 06/17/15 13:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/19/15 18:44	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/19/15 18:44	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 18:44	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/19/15 18:44	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			06/19/15 18:44	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/19/15 18:44	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/19/15 18:44	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/19/15 18:44	1
2-Hexanone	ND		5.0	0.57	ug/L			06/19/15 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/19/15 18:44	1
Acetone	ND		20	5.0	ug/L			06/19/15 18:44	1
Benzene	ND		5.0	0.99	ug/L			06/19/15 18:44	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/19/15 18:44	1
Bromoform	ND		5.0	1.1	ug/L			06/19/15 18:44	1
Bromomethane	ND		5.0	1.6	ug/L			06/19/15 18:44	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/19/15 18:44	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/19/15 18:44	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/19/15 18:44	1
Chloroethane	ND		5.0	0.75	ug/L			06/19/15 18:44	1
Chloroform	ND		5.0	1.0	ug/L			06/19/15 18:44	1
Chloromethane	ND		5.0	1.4	ug/L			06/19/15 18:44	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/19/15 18:44	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/19/15 18:44	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/19/15 18:44	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/19/15 18:44	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/19/15 18:44	1
Styrene	ND		5.0	0.64	ug/L			06/19/15 18:44	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/19/15 18:44	1
Toluene	ND		5.0	0.85	ug/L			06/19/15 18:44	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/19/15 18:44	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/19/15 18:44	1
Trichloroethene	ND		5.0	0.80	ug/L			06/19/15 18:44	1
Vinyl acetate	ND		5.0	0.86	ug/L			06/19/15 18:44	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/19/15 18:44	1
Xylenes, Total	ND		10	1.7	ug/L			06/19/15 18:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/19/15 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		06/19/15 18:44	1
4-Bromofluorobenzene (Surr)	92		75 - 120		06/19/15 18:44	1
Dibromofluoromethane (Surr)	92		80 - 120		06/19/15 18:44	1
Toluene-d8 (Surr)	113		80 - 120		06/19/15 18:44	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-061715-DJT-002

Date Collected: 06/17/15 13:45

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/19/15 19:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/19/15 19:09	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 19:09	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/19/15 19:09	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			06/19/15 19:09	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/19/15 19:09	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/19/15 19:09	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/19/15 19:09	1
2-Hexanone	ND		5.0	0.57	ug/L			06/19/15 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/19/15 19:09	1
Acetone	ND		20	5.0	ug/L			06/19/15 19:09	1
Benzene	ND		5.0	0.99	ug/L			06/19/15 19:09	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/19/15 19:09	1
Bromoform	ND		5.0	1.1	ug/L			06/19/15 19:09	1
Bromomethane	ND		5.0	1.6	ug/L			06/19/15 19:09	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/19/15 19:09	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/19/15 19:09	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/19/15 19:09	1
Chloroethane	ND		5.0	0.75	ug/L			06/19/15 19:09	1
Chloroform	ND		5.0	1.0	ug/L			06/19/15 19:09	1
Chloromethane	ND		5.0	1.4	ug/L			06/19/15 19:09	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/19/15 19:09	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/19/15 19:09	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/19/15 19:09	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/19/15 19:09	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/19/15 19:09	1
Styrene	ND		5.0	0.64	ug/L			06/19/15 19:09	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/19/15 19:09	1
Toluene	ND		5.0	0.85	ug/L			06/19/15 19:09	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/19/15 19:09	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/19/15 19:09	1
Trichloroethene	ND		5.0	0.80	ug/L			06/19/15 19:09	1
Vinyl acetate	ND		5.0	0.86	ug/L			06/19/15 19:09	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/19/15 19:09	1
Xylenes, Total	ND		10	1.7	ug/L			06/19/15 19:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/19/15 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		06/19/15 19:09	1
4-Bromofluorobenzene (Surr)	86		75 - 120		06/19/15 19:09	1
Dibromofluoromethane (Surr)	89		80 - 120		06/19/15 19:09	1
Toluene-d8 (Surr)	107		80 - 120		06/19/15 19:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-061715-DJT-003

Lab Sample ID: 180-45199-2

Date Collected: 06/17/15 14:15

Matrix: Water

Date Received: 06/18/15 08:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 17:11	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 17:11	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 17:11	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 17:11	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 17:11	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 17:11	1
Bis(2-ethylhexyl) phthalate	8.5	J	19	4.1	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 17:11	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 17:11	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 17:11	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 17:11	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 17:11	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 17:11	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 17:11	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 17:11	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 17:11	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 17:11	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 17:11	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 17:11	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 17:11	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 17:11	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 17:11	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 17:11	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 17:11	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 17:11	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 17:11	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 17:11	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 17:11	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 17:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-061715-DJT-003

Date Collected: 06/17/15 14:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 17:11	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 17:11	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 17:11	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 17:11	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 17:11	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 17:11	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 17:11	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 17:11	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 17:11	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 17:11	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 17:11	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 17:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		1.48		06/24/15 10:27	06/26/15 17:11	1
Unknown	7.2	T J	ug/L		10.71		06/24/15 10:27	06/26/15 17:11	1
1,2:3,4-Dibenzopyrene	21	T J N	ug/L		16.25	191-30-0	06/24/15 10:27	06/26/15 17:11	1
Unknown	8.9	T J	ug/L		16.27		06/24/15 10:27	06/26/15 17:11	1
1,2:3,4-Dibenzopyrene	7.4	T J N	ug/L		16.57	191-30-0	06/24/15 10:27	06/26/15 17:11	1
3,4:8,9-Dibenzopyrene	10	T J N	ug/L		16.62	189-64-0	06/24/15 10:27	06/26/15 17:11	1
1,2:4,5-Dibenzopyrene	22	T J N	ug/L		18.20	192-65-4	06/24/15 10:27	06/26/15 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		28 - 106	06/24/15 10:27	06/26/15 17:11	1
2-Fluorophenol	82		20 - 108	06/24/15 10:27	06/26/15 17:11	1
2,4,6-Tribromophenol	98		25 - 118	06/24/15 10:27	06/26/15 17:11	1
Nitrobenzene-d5	89		27 - 110	06/24/15 10:27	06/26/15 17:11	1
Phenol-d5	86		23 - 111	06/24/15 10:27	06/26/15 17:11	1
Terphenyl-d14	92		20 - 109	06/24/15 10:27	06/26/15 17:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-061715-DJT-001

Date Collected: 06/17/15 13:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 17:38	1
Acenaphthylene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 17:38	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzoic acid	ND		48	16	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 17:38	1
Benzyl alcohol	ND		9.6	1.9	ug/L		06/24/15 10:27	06/26/15 17:38	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 17:38	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		06/24/15 10:27	06/26/15 17:38	1
Bis(2-ethylhexyl) phthalate	ND		19	4.2	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		06/24/15 10:27	06/26/15 17:38	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Chloroaniline	ND		9.6	2.8	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Chlorophenol	ND		9.6	2.2	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		06/24/15 10:27	06/26/15 17:38	1
Chrysene	ND		1.9	0.30	ug/L		06/24/15 10:27	06/26/15 17:38	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 17:38	1
Dibenzofuran	ND		9.6	0.93	ug/L		06/24/15 10:27	06/26/15 17:38	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		06/24/15 10:27	06/26/15 17:38	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		06/24/15 10:27	06/26/15 17:38	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		06/24/15 10:27	06/26/15 17:38	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		06/24/15 10:27	06/26/15 17:38	1
Diethyl phthalate	ND		9.6	2.9	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		06/24/15 10:27	06/26/15 17:38	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		06/24/15 10:27	06/26/15 17:38	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4-Dinitrophenol	ND		48	24	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 17:38	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		06/24/15 10:27	06/26/15 17:38	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 17:38	1
Fluorene	ND		1.9	0.23	ug/L		06/24/15 10:27	06/26/15 17:38	1
Hexachlorobenzene	ND		9.6	0.59	ug/L		06/24/15 10:27	06/26/15 17:38	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		06/24/15 10:27	06/26/15 17:38	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 17:38	1
Hexachloroethane	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 17:38	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		06/24/15 10:27	06/26/15 17:38	1
Isophorone	ND		9.6	0.71	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Methylphenol	ND		9.6	1.8	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Methylphenol	ND		9.6	2.0	ug/L		06/24/15 10:27	06/26/15 17:38	1
Naphthalene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Nitroaniline	ND		48	6.5	ug/L		06/24/15 10:27	06/26/15 17:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-061715-DJT-001

Date Collected: 06/17/15 13:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Nitroaniline	ND		48	7.4	ug/L		06/24/15 10:27	06/26/15 17:38	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 17:38	1
2-Nitrophenol	ND		9.6	1.1	ug/L		06/24/15 10:27	06/26/15 17:38	1
4-Nitrophenol	ND		48	7.7	ug/L		06/24/15 10:27	06/26/15 17:38	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		06/24/15 10:27	06/26/15 17:38	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		06/24/15 10:27	06/26/15 17:38	1
Pentachlorophenol	ND		9.6	4.8	ug/L		06/24/15 10:27	06/26/15 17:38	1
Phenanthrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 17:38	1
Phenol	ND		9.6	0.53	ug/L		06/24/15 10:27	06/26/15 17:38	1
Pyrene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 17:38	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		06/24/15 10:27	06/26/15 17:38	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		06/24/15 10:27	06/26/15 17:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	12	T J	ug/L		1.48		06/24/15 10:27	06/26/15 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		28 - 106	06/24/15 10:27	06/26/15 17:38	1
2-Fluorophenol	73		20 - 108	06/24/15 10:27	06/26/15 17:38	1
2,4,6-Tribromophenol	87		25 - 118	06/24/15 10:27	06/26/15 17:38	1
Nitrobenzene-d5	80		27 - 110	06/24/15 10:27	06/26/15 17:38	1
Phenol-d5	77		23 - 111	06/24/15 10:27	06/26/15 17:38	1
Terphenyl-d14	60		20 - 109	06/24/15 10:27	06/26/15 17:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-061715-DJT-002

Date Collected: 06/17/15 13:45

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:05	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:05	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 18:05	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 18:05	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 18:05	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 18:05	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:05	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 18:05	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 18:05	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 18:05	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 18:05	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 18:05	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:05	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 18:05	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 18:05	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:05	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:05	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:05	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:05	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:05	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 18:05	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 18:05	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 18:05	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:05	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:05	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 18:05	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:05	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 18:05	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-061715-DJT-002

Date Collected: 06/17/15 13:45

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 18:05	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 18:05	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:05	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 18:05	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:05	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 18:05	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 18:05	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 18:05	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 18:05	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:05	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:05	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 18:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		1.48		06/24/15 10:27	06/26/15 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		28 - 106	06/24/15 10:27	06/26/15 18:05	1
2-Fluorophenol	83		20 - 108	06/24/15 10:27	06/26/15 18:05	1
2,4,6-Tribromophenol	103		25 - 118	06/24/15 10:27	06/26/15 18:05	1
Nitrobenzene-d5	91		27 - 110	06/24/15 10:27	06/26/15 18:05	1
Phenol-d5	88		23 - 111	06/24/15 10:27	06/26/15 18:05	1
Terphenyl-d14	118	X	20 - 109	06/24/15 10:27	06/26/15 18:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-061715-DJT-003

Date Collected: 06/17/15 14:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/01/15 22:55	1
alpha-BHC	ND		0.050	0.027	ug/L		06/23/15 09:53	07/01/15 22:55	1
beta-BHC	ND		0.050	0.040	ug/L		06/23/15 09:53	07/01/15 22:55	1
delta-BHC	ND		0.050	0.017	ug/L		06/23/15 09:53	07/01/15 22:55	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/23/15 09:53	07/01/15 22:55	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 22:55	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 22:55	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/23/15 09:53	07/01/15 22:55	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/23/15 09:53	07/01/15 22:55	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/23/15 09:53	07/01/15 22:55	1
Dieldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/01/15 22:55	1
Endosulfan I	ND		0.050	0.038	ug/L		06/23/15 09:53	07/01/15 22:55	1
Endosulfan II	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 22:55	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/23/15 09:53	07/01/15 22:55	1
Endrin	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 22:55	1
Endrin ketone	ND		0.050	0.037	ug/L		06/23/15 09:53	07/01/15 22:55	1
Heptachlor	ND		0.050	0.040	ug/L		06/23/15 09:53	07/01/15 22:55	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 22:55	1
Methoxychlor	ND		0.10	0.037	ug/L		06/23/15 09:53	07/01/15 22:55	1
Toxaphene	ND		4.0	0.74	ug/L		06/23/15 09:53	07/01/15 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		45 - 130				06/23/15 09:53	07/01/15 22:55	1
Tetrachloro-m-xylene	78		45 - 130				06/23/15 09:53	07/01/15 22:55	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130				06/23/15 09:53	07/01/15 22:55	1
DCB Decachlorobiphenyl (Surr)	85		45 - 130				06/23/15 09:53	07/01/15 22:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-061715-DJT-001

Date Collected: 06/17/15 13:15

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/01/15 23:10	1
alpha-BHC	ND		0.050	0.027	ug/L		06/23/15 09:53	07/01/15 23:10	1
beta-BHC	ND		0.050	0.040	ug/L		06/23/15 09:53	07/01/15 23:10	1
delta-BHC	ND		0.050	0.017	ug/L		06/23/15 09:53	07/01/15 23:10	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/23/15 09:53	07/01/15 23:10	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 23:10	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 23:10	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/23/15 09:53	07/01/15 23:10	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/23/15 09:53	07/01/15 23:10	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/23/15 09:53	07/01/15 23:10	1
Dieldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/01/15 23:10	1
Endosulfan I	ND		0.050	0.038	ug/L		06/23/15 09:53	07/01/15 23:10	1
Endosulfan II	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 23:10	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/23/15 09:53	07/01/15 23:10	1
Endrin	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 23:10	1
Endrin ketone	ND		0.050	0.037	ug/L		06/23/15 09:53	07/01/15 23:10	1
Heptachlor	ND		0.050	0.040	ug/L		06/23/15 09:53	07/01/15 23:10	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/23/15 09:53	07/01/15 23:10	1
Methoxychlor	ND		0.10	0.037	ug/L		06/23/15 09:53	07/01/15 23:10	1
Toxaphene	ND		4.0	0.74	ug/L		06/23/15 09:53	07/01/15 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		45 - 130	06/23/15 09:53	07/01/15 23:10	1
Tetrachloro-m-xylene	64		45 - 130	06/23/15 09:53	07/01/15 23:10	1
DCB Decachlorobiphenyl (Surr)	78		45 - 130	06/23/15 09:53	07/01/15 23:10	1
DCB Decachlorobiphenyl (Surr)	78		45 - 130	06/23/15 09:53	07/01/15 23:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-061715-DJT-002

Date Collected: 06/17/15 13:45

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/02/15 00:28	1
alpha-BHC	ND		0.050	0.027	ug/L		06/23/15 09:53	07/02/15 00:28	1
beta-BHC	ND		0.050	0.040	ug/L		06/23/15 09:53	07/02/15 00:28	1
delta-BHC	ND		0.050	0.017	ug/L		06/23/15 09:53	07/02/15 00:28	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/23/15 09:53	07/02/15 00:28	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/02/15 00:28	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/23/15 09:53	07/02/15 00:28	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/23/15 09:53	07/02/15 00:28	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/23/15 09:53	07/02/15 00:28	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/23/15 09:53	07/02/15 00:28	1
Dieldrin	ND		0.050	0.033	ug/L		06/23/15 09:53	07/02/15 00:28	1
Endosulfan I	ND		0.050	0.038	ug/L		06/23/15 09:53	07/02/15 00:28	1
Endosulfan II	ND		0.050	0.039	ug/L		06/23/15 09:53	07/02/15 00:28	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/23/15 09:53	07/02/15 00:28	1
Endrin	ND		0.050	0.039	ug/L		06/23/15 09:53	07/02/15 00:28	1
Endrin ketone	ND		0.050	0.037	ug/L		06/23/15 09:53	07/02/15 00:28	1
Heptachlor	ND		0.050	0.040	ug/L		06/23/15 09:53	07/02/15 00:28	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/23/15 09:53	07/02/15 00:28	1
Methoxychlor	ND		0.10	0.037	ug/L		06/23/15 09:53	07/02/15 00:28	1
Toxaphene	ND		4.0	0.74	ug/L		06/23/15 09:53	07/02/15 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		45 - 130	06/23/15 09:53	07/02/15 00:28	1
Tetrachloro-m-xylene	67		45 - 130	06/23/15 09:53	07/02/15 00:28	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/23/15 09:53	07/02/15 00:28	1
DCB Decachlorobiphenyl (Surr)	78		45 - 130	06/23/15 09:53	07/02/15 00:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-061715-DJT-003

Lab Sample ID: 180-45199-2

Date Collected: 06/17/15 14:15

Matrix: Water

Date Received: 06/18/15 08:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1221	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1232	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1242	ND		0.40	0.074	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1248	ND		0.40	0.11	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1254	ND		0.40	0.12	ug/L		06/23/15 09:53	06/24/15 07:19	1
PCB-1260	ND		0.40	0.068	ug/L		06/23/15 09:53	06/24/15 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		35 - 140	06/23/15 09:53	06/24/15 07:19	1
Tetrachloro-m-xylene (Surr)	75		35 - 140	06/23/15 09:53	06/24/15 07:19	1
DCB Decachlorobiphenyl (Surr)	85		35 - 140	06/23/15 09:53	06/24/15 07:19	1
DCB Decachlorobiphenyl (Surr)	87		35 - 140	06/23/15 09:53	06/24/15 07:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-061715-DJT-001

Lab Sample ID: 180-45199-3

Date Collected: 06/17/15 13:15

Matrix: Water

Date Received: 06/18/15 08:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1221	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1232	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1242	ND		0.40	0.074	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1248	ND		0.40	0.11	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1254	ND		0.40	0.12	ug/L		06/23/15 09:53	06/24/15 07:37	1
PCB-1260	ND		0.40	0.068	ug/L		06/23/15 09:53	06/24/15 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		35 - 140	06/23/15 09:53	06/24/15 07:37	1
Tetrachloro-m-xylene (Surr)	67		35 - 140	06/23/15 09:53	06/24/15 07:37	1
DCB Decachlorobiphenyl (Surr)	83		35 - 140	06/23/15 09:53	06/24/15 07:37	1
DCB Decachlorobiphenyl (Surr)	85		35 - 140	06/23/15 09:53	06/24/15 07:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45199-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-061715-DJT-002

Date Collected: 06/17/15 13:45

Date Received: 06/18/15 08:55

Lab Sample ID: 180-45199-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1221	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1232	ND		0.40	0.16	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1242	ND		0.40	0.074	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1248	ND		0.40	0.11	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1254	ND		0.40	0.12	ug/L		06/23/15 09:53	06/24/15 07:56	1
PCB-1260	ND		0.40	0.068	ug/L		06/23/15 09:53	06/24/15 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		35 - 140	06/23/15 09:53	06/24/15 07:56	1
Tetrachloro-m-xylene (Surr)	69		35 - 140	06/23/15 09:53	06/24/15 07:56	1
DCB Decachlorobiphenyl (Surr)	83		35 - 140	06/23/15 09:53	06/24/15 07:56	1
DCB Decachlorobiphenyl (Surr)	86		35 - 140	06/23/15 09:53	06/24/15 07:56	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information

GLEN SPRINGS HOLDINGS INC Report To: Susan Scrocchi

805 97TH STREET Copy To:

LOVE CANAL

NIAGARA FALLS, NEW YORK 14304 Invoice To:

Phone: 716-283-0111 PO:

Fax: 716-283-2856 Project Name: LOVE CANAL
ANNUAL GW

Email: sscrocchi@craworld.com Project Number: 9954

Lab Information

Laboratory: TEST AMERICA PITTSBURGH

Laboratory Location: 301 ALPHA DRIVE
PITTSBURGH, PA 15238

Laboratory Contact: JILL COLUSSY

Requested Due Date: TAT: 10

QA/QC Requirements:

Event Information

ID#: LC ANNUAL GW SAMPLING-01-1

SSOW Ref#:

Sampler Name: SHAWN GARDNER

Valid Matrix Code
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment

Sample Condition

Temp in C	
Received on ice	Y/N*
Sealed Cooler	Y/N
Samples Intact	Y/N



180-45199 Chain of Custody

Sample Identification

Sample Identification	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
LCTRIP-061715	WG Q	06/17/2015	00:00	0	0	2	
WG-9954-061715-DJT-003	WG	06/17/2015	14:15	2	2	3	
WG-9954-061715-DJT-001	WG	06/17/2015	13:15	2	2	3	
WG-9954-061715-DJT-002	WG	06/17/2015	13:45	2	2	3	
Total Bottles				6	6	11	Grand Total:23

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	1	Shawn Gardner	6/17/15	1520	Debbie Watson	6-18-15	
AIRBILL#:							8:58

ANALYTICAL REPORT

Job Number: 180-45315-1

Job Description: 9954, Love Canal Annual

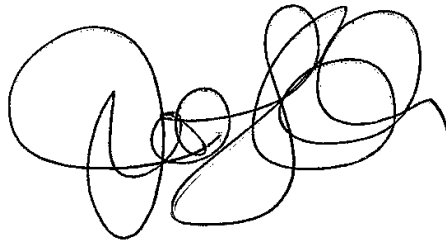
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/7/2015 5:10 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/07/2015

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45315-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/23/2015 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.7° C.

Sample LCTRIP-062215-DJT was assigned a sampling time of 12:20 (the earliest sampling time) as per laboratory SOP.

VOLATILES

The laboratory control standard for batch 180-146491 recovered high and outside of the control limits for 1,1-Dichloroethene and Vinyl Acetate. As the recoveries were high and all samples were non-detect for these compounds, all data was reported

The matrix spike and matrix spike duplicate of sample WG-9954-062215-DJT-004 (180-45315-1) recovered outside of the control limits for 1,1-Dichloroethene and Vinyl Acetate.

SEMIVOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Client Sample ID: WG-9954-062215-DJT-004

Lab Sample ID: 180-45315-1

☐ No Detections.

Client Sample ID: WG-9954-062215-DJT-005

Lab Sample ID: 180-45315-2

☐ No Detections.

Client Sample ID: WG-9954-062215-DJT-006

Lab Sample ID: 180-45315-3

☐ No Detections.

Client Sample ID: WG-9954-062215-DJT-007

Lab Sample ID: 180-45315-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	5.7	J	19	4.2	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-062215-DJT-008

Lab Sample ID: 180-45315-5

☐ No Detections.

Client Sample ID: WG-9954-062215-DJT-009

Lab Sample ID: 180-45315-6

☐ No Detections.

Client Sample ID: LCTRIP-062215-DJT

Lab Sample ID: 180-45315-7

☐ No Detections.

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-004

Date Collected: 06/22/15 12:20

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 11:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 11:32	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 11:32	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 11:32	1
1,1-Dichloroethene	ND	F1 *	5.0	1.1	ug/L			06/30/15 11:32	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 11:32	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 11:32	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 11:32	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 11:32	1
Acetone	ND		20	5.0	ug/L			06/30/15 11:32	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 11:32	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 11:32	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 11:32	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 11:32	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 11:32	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 11:32	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 11:32	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 11:32	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 11:32	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 11:32	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 11:32	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 11:32	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 11:32	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 11:32	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 11:32	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 11:32	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 11:32	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 11:32	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 11:32	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 11:32	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 11:32	1
Vinyl acetate	ND	F1 *	5.0	0.86	ug/L			06/30/15 11:32	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 11:32	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 11:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	69		62 - 123		06/30/15 11:32	1
4-Bromofluorobenzene (Surr)	85		75 - 120		06/30/15 11:32	1
Dibromofluoromethane (Surr)	88		80 - 120		06/30/15 11:32	1
Toluene-d8 (Surr)	106		80 - 120		06/30/15 11:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-005

Date Collected: 06/22/15 13:05

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 13:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 13:59	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 13:59	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 13:59	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 13:59	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 13:59	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 13:59	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 13:59	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 13:59	1
Acetone	ND		20	5.0	ug/L			06/30/15 13:59	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 13:59	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 13:59	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 13:59	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 13:59	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 13:59	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 13:59	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 13:59	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 13:59	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 13:59	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 13:59	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 13:59	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 13:59	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 13:59	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 13:59	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 13:59	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 13:59	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 13:59	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 13:59	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 13:59	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 13:59	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 13:59	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 13:59	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 13:59	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 13:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		62 - 123		06/30/15 13:59	1
4-Bromofluorobenzene (Surr)	88		75 - 120		06/30/15 13:59	1
Dibromofluoromethane (Surr)	90		80 - 120		06/30/15 13:59	1
Toluene-d8 (Surr)	101		80 - 120		06/30/15 13:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-006

Date Collected: 06/22/15 13:40

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 16:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 16:40	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 16:40	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 16:40	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 16:40	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 16:40	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 16:40	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 16:40	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 16:40	1
Acetone	ND		20	5.0	ug/L			06/30/15 16:40	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 16:40	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 16:40	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 16:40	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 16:40	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 16:40	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 16:40	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 16:40	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 16:40	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 16:40	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 16:40	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 16:40	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 16:40	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 16:40	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 16:40	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 16:40	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 16:40	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 16:40	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 16:40	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 16:40	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 16:40	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 16:40	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 16:40	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 16:40	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 16:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		62 - 123		06/30/15 16:40	1
4-Bromofluorobenzene (Surr)	86		75 - 120		06/30/15 16:40	1
Dibromofluoromethane (Surr)	88		80 - 120		06/30/15 16:40	1
Toluene-d8 (Surr)	104		80 - 120		06/30/15 16:40	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-007

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 14:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 14:49	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 14:49	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 14:49	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 14:49	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 14:49	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 14:49	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 14:49	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 14:49	1
Acetone	ND		20	5.0	ug/L			06/30/15 14:49	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 14:49	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 14:49	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 14:49	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 14:49	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 14:49	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 14:49	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 14:49	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 14:49	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 14:49	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 14:49	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 14:49	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 14:49	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 14:49	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 14:49	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 14:49	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 14:49	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 14:49	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 14:49	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 14:49	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 14:49	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 14:49	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 14:49	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 14:49	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 14:49	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	69		62 - 123		06/30/15 14:49	1
4-Bromofluorobenzene (Surr)	82		75 - 120		06/30/15 14:49	1
Dibromofluoromethane (Surr)	87		80 - 120		06/30/15 14:49	1
Toluene-d8 (Surr)	101		80 - 120		06/30/15 14:49	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-008

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 15:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 15:13	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 15:13	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 15:13	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 15:13	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 15:13	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 15:13	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 15:13	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 15:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 15:13	1
Acetone	ND		20	5.0	ug/L			06/30/15 15:13	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 15:13	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 15:13	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 15:13	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 15:13	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 15:13	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 15:13	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 15:13	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 15:13	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 15:13	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 15:13	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 15:13	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 15:13	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 15:13	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 15:13	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 15:13	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 15:13	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 15:13	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 15:13	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 15:13	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 15:13	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 15:13	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 15:13	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 15:13	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 15:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		62 - 123		06/30/15 15:13	1
4-Bromofluorobenzene (Surr)	86		75 - 120		06/30/15 15:13	1
Dibromofluoromethane (Surr)	91		80 - 120		06/30/15 15:13	1
Toluene-d8 (Surr)	106		80 - 120		06/30/15 15:13	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062215-DJT-009

Date Collected: 06/22/15 15:15

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 15:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 15:38	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 15:38	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 15:38	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 15:38	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 15:38	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 15:38	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 15:38	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 15:38	1
Acetone	ND		20	5.0	ug/L			06/30/15 15:38	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 15:38	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 15:38	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 15:38	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 15:38	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 15:38	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 15:38	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 15:38	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 15:38	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 15:38	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 15:38	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 15:38	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 15:38	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 15:38	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 15:38	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 15:38	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 15:38	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 15:38	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 15:38	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 15:38	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 15:38	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 15:38	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 15:38	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 15:38	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 15:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 123		06/30/15 15:38	1
4-Bromofluorobenzene (Surr)	84		75 - 120		06/30/15 15:38	1
Dibromofluoromethane (Surr)	88		80 - 120		06/30/15 15:38	1
Toluene-d8 (Surr)	102		80 - 120		06/30/15 15:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-062215-DJT

Date Collected: 06/22/15 12:20

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 11:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 11:56	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 11:56	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 11:56	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 11:56	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 11:56	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 11:56	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 11:56	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 11:56	1
Acetone	ND		20	5.0	ug/L			06/30/15 11:56	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 11:56	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 11:56	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 11:56	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 11:56	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 11:56	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 11:56	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 11:56	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 11:56	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 11:56	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 11:56	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 11:56	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 11:56	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 11:56	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 11:56	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 11:56	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 11:56	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 11:56	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 11:56	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 11:56	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 11:56	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 11:56	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 11:56	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 11:56	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 11:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 123		06/30/15 11:56	1
4-Bromofluorobenzene (Surr)	84		75 - 120		06/30/15 11:56	1
Dibromofluoromethane (Surr)	86		80 - 120		06/30/15 11:56	1
Toluene-d8 (Surr)	104		80 - 120		06/30/15 11:56	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-004

Lab Sample ID: 180-45315-1

Date Collected: 06/22/15 12:20

Matrix: Water

Date Received: 06/23/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:31	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:31	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 18:31	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 18:31	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 18:31	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 18:31	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:31	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 18:31	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 18:31	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 18:31	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 18:31	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 18:31	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:31	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 18:31	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 18:31	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:31	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:31	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:31	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:31	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:31	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 18:31	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 18:31	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 18:31	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:31	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:31	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 18:31	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:31	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 18:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-004

Date Collected: 06/22/15 12:20

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 18:31	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 18:31	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:31	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 18:31	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:31	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 18:31	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 18:31	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 18:31	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 18:31	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:31	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:31	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 18:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	12	T J	ug/L		1.49		06/24/15 10:27	06/26/15 18:31	1
Unknown	5.6	T J	ug/L		10.72		06/24/15 10:27	06/26/15 18:31	1
Unknown	8.7	T J	ug/L		14.27		06/24/15 10:27	06/26/15 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		28 - 106	06/24/15 10:27	06/26/15 18:31	1
2-Fluorophenol	78		20 - 108	06/24/15 10:27	06/26/15 18:31	1
2,4,6-Tribromophenol	92		25 - 118	06/24/15 10:27	06/26/15 18:31	1
Nitrobenzene-d5	82		27 - 110	06/24/15 10:27	06/26/15 18:31	1
Phenol-d5	83		23 - 111	06/24/15 10:27	06/26/15 18:31	1
Terphenyl-d14	47		20 - 109	06/24/15 10:27	06/26/15 18:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-005

Date Collected: 06/22/15 13:05

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:58	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:58	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 18:58	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 18:58	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 18:58	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 18:58	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:58	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 18:58	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 18:58	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 18:58	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 18:58	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 18:58	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:58	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 18:58	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 18:58	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 18:58	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:58	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:58	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:58	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 18:58	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 18:58	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 18:58	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 18:58	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:58	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 18:58	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 18:58	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 18:58	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 18:58	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-005

Date Collected: 06/22/15 13:05

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 18:58	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 18:58	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 18:58	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 18:58	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:58	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 18:58	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 18:58	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 18:58	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 18:58	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 18:58	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 18:58	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 18:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Methylene Chloride	14	T J N	ug/L		1.48	75-09-2	06/24/15 10:27	06/26/15 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		28 - 106	06/24/15 10:27	06/26/15 18:58	1
2-Fluorophenol	79		20 - 108	06/24/15 10:27	06/26/15 18:58	1
2,4,6-Tribromophenol	95		25 - 118	06/24/15 10:27	06/26/15 18:58	1
Nitrobenzene-d5	85		27 - 110	06/24/15 10:27	06/26/15 18:58	1
Phenol-d5	84		23 - 111	06/24/15 10:27	06/26/15 18:58	1
Terphenyl-d14	52		20 - 109	06/24/15 10:27	06/26/15 18:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-006

Date Collected: 06/22/15 13:40

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.29	ug/L		06/24/15 10:27	06/26/15 19:25	1
Acenaphthylene	ND		2.0	0.22	ug/L		06/24/15 10:27	06/26/15 19:25	1
Anthracene	ND		2.0	0.19	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzo[a]anthracene	ND		2.0	0.37	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzo[b]fluoranthene	ND		2.0	0.49	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzo[k]fluoranthene	ND		2.0	0.30	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzoic acid	ND		50	16	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzo[g,h,i]perylene	ND		2.0	0.29	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzo[a]pyrene	ND		2.0	0.28	ug/L		06/24/15 10:27	06/26/15 19:25	1
Benzyl alcohol	ND		10	2.0	ug/L		06/24/15 10:27	06/26/15 19:25	1
Bis(2-chloroethoxy)methane	ND		10	1.3	ug/L		06/24/15 10:27	06/26/15 19:25	1
Bis(2-chloroethyl)ether	ND		10	0.32	ug/L		06/24/15 10:27	06/26/15 19:25	1
Bis(2-ethylhexyl) phthalate	ND		20	4.4	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Bromophenyl phenyl ether	ND		10	1.2	ug/L		06/24/15 10:27	06/26/15 19:25	1
Butyl benzyl phthalate	ND		10	2.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Chloroaniline	ND		10	2.9	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Chloro-3-methylphenol	ND		10	1.7	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Chloronaphthalene	ND		2.0	0.31	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Chlorophenol	ND		10	2.3	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Chlorophenyl phenyl ether	ND		10	0.80	ug/L		06/24/15 10:27	06/26/15 19:25	1
Chrysene	ND		2.0	0.31	ug/L		06/24/15 10:27	06/26/15 19:25	1
Dibenz(a,h)anthracene	ND		2.0	0.27	ug/L		06/24/15 10:27	06/26/15 19:25	1
Dibenzofuran	ND		10	0.97	ug/L		06/24/15 10:27	06/26/15 19:25	1
Di-n-butyl phthalate	ND		10	2.4	ug/L		06/24/15 10:27	06/26/15 19:25	1
1,2-Dichlorobenzene	ND		10	1.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
1,3-Dichlorobenzene	ND		10	0.75	ug/L		06/24/15 10:27	06/26/15 19:25	1
3,3'-Dichlorobenzidine	ND		10	1.5	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4-Dichlorophenol	ND		10	0.67	ug/L		06/24/15 10:27	06/26/15 19:25	1
Diethyl phthalate	ND		10	3.0	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4-Dimethylphenol	ND		10	1.7	ug/L		06/24/15 10:27	06/26/15 19:25	1
Dimethyl phthalate	ND		10	1.8	ug/L		06/24/15 10:27	06/26/15 19:25	1
4,6-Dinitro-2-methylphenol	ND		50	16	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4-Dinitrophenol	ND		50	25	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4-Dinitrotoluene	ND		10	2.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,6-Dinitrotoluene	ND		10	1.4	ug/L		06/24/15 10:27	06/26/15 19:25	1
Di-n-octyl phthalate	ND		10	2.0	ug/L		06/24/15 10:27	06/26/15 19:25	1
Fluoranthene	ND		2.0	0.21	ug/L		06/24/15 10:27	06/26/15 19:25	1
Fluorene	ND		2.0	0.24	ug/L		06/24/15 10:27	06/26/15 19:25	1
Hexachlorobenzene	ND		10	0.61	ug/L		06/24/15 10:27	06/26/15 19:25	1
Hexachlorobutadiene	ND		10	0.94	ug/L		06/24/15 10:27	06/26/15 19:25	1
Hexachlorocyclopentadiene	ND		10	1.4	ug/L		06/24/15 10:27	06/26/15 19:25	1
Hexachloroethane	ND		10	1.4	ug/L		06/24/15 10:27	06/26/15 19:25	1
Indeno[1,2,3-cd]pyrene	ND		2.0	0.43	ug/L		06/24/15 10:27	06/26/15 19:25	1
Isophorone	ND		10	0.74	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Methylnaphthalene	ND		2.0	0.19	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Methylphenol	ND		10	1.9	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Methylphenol	ND		10	2.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
Naphthalene	ND		2.0	0.23	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Nitroaniline	ND		50	6.7	ug/L		06/24/15 10:27	06/26/15 19:25	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-006

Date Collected: 06/22/15 13:40

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		50	8.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Nitroaniline	ND		50	7.7	ug/L		06/24/15 10:27	06/26/15 19:25	1
Nitrobenzene	ND		20	1.5	ug/L		06/24/15 10:27	06/26/15 19:25	1
2-Nitrophenol	ND		10	1.1	ug/L		06/24/15 10:27	06/26/15 19:25	1
4-Nitrophenol	ND		50	8.0	ug/L		06/24/15 10:27	06/26/15 19:25	1
N-Nitrosodiphenylamine	ND		10	1.2	ug/L		06/24/15 10:27	06/26/15 19:25	1
N-Nitrosodi-n-propylamine	ND		10	0.50	ug/L		06/24/15 10:27	06/26/15 19:25	1
Pentachlorophenol	ND		10	5.0	ug/L		06/24/15 10:27	06/26/15 19:25	1
Phenanthrene	ND		2.0	0.42	ug/L		06/24/15 10:27	06/26/15 19:25	1
Phenol	ND		10	0.55	ug/L		06/24/15 10:27	06/26/15 19:25	1
Pyrene	ND		2.0	0.23	ug/L		06/24/15 10:27	06/26/15 19:25	1
1,2,4-Trichlorobenzene	ND		10	0.85	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4,5-Trichlorophenol	ND		10	1.2	ug/L		06/24/15 10:27	06/26/15 19:25	1
2,4,6-Trichlorophenol	ND		10	3.0	ug/L		06/24/15 10:27	06/26/15 19:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	15	T J	ug/L		1.49		06/24/15 10:27	06/26/15 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		28 - 106	06/24/15 10:27	06/26/15 19:25	1
2-Fluorophenol	80		20 - 108	06/24/15 10:27	06/26/15 19:25	1
2,4,6-Tribromophenol	93		25 - 118	06/24/15 10:27	06/26/15 19:25	1
Nitrobenzene-d5	87		27 - 110	06/24/15 10:27	06/26/15 19:25	1
Phenol-d5	86		23 - 111	06/24/15 10:27	06/26/15 19:25	1
Terphenyl-d14	69		20 - 109	06/24/15 10:27	06/26/15 19:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-007

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 19:51	1
Acenaphthylene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 19:51	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzoic acid	ND		48	16	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 19:51	1
Benzyl alcohol	ND		9.6	1.9	ug/L		06/24/15 10:27	06/26/15 19:51	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 19:51	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		06/24/15 10:27	06/26/15 19:51	1
Bis(2-ethylhexyl) phthalate	5.7	J	19	4.2	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		06/24/15 10:27	06/26/15 19:51	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Chloroaniline	ND		9.6	2.8	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Chlorophenol	ND		9.6	2.2	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		06/24/15 10:27	06/26/15 19:51	1
Chrysene	ND		1.9	0.30	ug/L		06/24/15 10:27	06/26/15 19:51	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 19:51	1
Dibenzofuran	ND		9.6	0.93	ug/L		06/24/15 10:27	06/26/15 19:51	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		06/24/15 10:27	06/26/15 19:51	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		06/24/15 10:27	06/26/15 19:51	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		06/24/15 10:27	06/26/15 19:51	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		06/24/15 10:27	06/26/15 19:51	1
Diethyl phthalate	ND		9.6	2.9	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		06/24/15 10:27	06/26/15 19:51	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		06/24/15 10:27	06/26/15 19:51	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4-Dinitrophenol	ND		48	24	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 19:51	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		06/24/15 10:27	06/26/15 19:51	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 19:51	1
Fluorene	ND		1.9	0.23	ug/L		06/24/15 10:27	06/26/15 19:51	1
Hexachlorobenzene	ND		9.6	0.59	ug/L		06/24/15 10:27	06/26/15 19:51	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		06/24/15 10:27	06/26/15 19:51	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 19:51	1
Hexachloroethane	ND		9.6	1.3	ug/L		06/24/15 10:27	06/26/15 19:51	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		06/24/15 10:27	06/26/15 19:51	1
Isophorone	ND		9.6	0.71	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Methylphenol	ND		9.6	1.8	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Methylphenol	ND		9.6	2.0	ug/L		06/24/15 10:27	06/26/15 19:51	1
Naphthalene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Nitroaniline	ND		48	6.5	ug/L		06/24/15 10:27	06/26/15 19:51	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-007

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Nitroaniline	ND		48	7.4	ug/L		06/24/15 10:27	06/26/15 19:51	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 19:51	1
2-Nitrophenol	ND		9.6	1.1	ug/L		06/24/15 10:27	06/26/15 19:51	1
4-Nitrophenol	ND		48	7.7	ug/L		06/24/15 10:27	06/26/15 19:51	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		06/24/15 10:27	06/26/15 19:51	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		06/24/15 10:27	06/26/15 19:51	1
Pentachlorophenol	ND		9.6	4.8	ug/L		06/24/15 10:27	06/26/15 19:51	1
Phenanthrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 19:51	1
Phenol	ND		9.6	0.53	ug/L		06/24/15 10:27	06/26/15 19:51	1
Pyrene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 19:51	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		06/24/15 10:27	06/26/15 19:51	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		06/24/15 10:27	06/26/15 19:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/24/15 10:27	06/26/15 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		28 - 106	06/24/15 10:27	06/26/15 19:51	1
2-Fluorophenol	69		20 - 108	06/24/15 10:27	06/26/15 19:51	1
2,4,6-Tribromophenol	86		25 - 118	06/24/15 10:27	06/26/15 19:51	1
Nitrobenzene-d5	73		27 - 110	06/24/15 10:27	06/26/15 19:51	1
Phenol-d5	72		23 - 111	06/24/15 10:27	06/26/15 19:51	1
Terphenyl-d14	48		20 - 109	06/24/15 10:27	06/26/15 19:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-008

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 20:18	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 20:18	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 20:18	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 20:18	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 20:18	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 20:18	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:18	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 20:18	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 20:18	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 20:18	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 20:18	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 20:18	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 20:18	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 20:18	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 20:18	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 20:18	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 20:18	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:18	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 20:18	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 20:18	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 20:18	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 20:18	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 20:18	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:18	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:18	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 20:18	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 20:18	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 20:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-008

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 20:18	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 20:18	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 20:18	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 20:18	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:18	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 20:18	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 20:18	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 20:18	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 20:18	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 20:18	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:18	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 20:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	10	T J	ug/L		1.48		06/24/15 10:27	06/26/15 20:18	1
Unknown	7.0	T J	ug/L		12.12		06/24/15 10:27	06/26/15 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		28 - 106	06/24/15 10:27	06/26/15 20:18	1
2-Fluorophenol	73		20 - 108	06/24/15 10:27	06/26/15 20:18	1
2,4,6-Tribromophenol	91		25 - 118	06/24/15 10:27	06/26/15 20:18	1
Nitrobenzene-d5	80		27 - 110	06/24/15 10:27	06/26/15 20:18	1
Phenol-d5	76		23 - 111	06/24/15 10:27	06/26/15 20:18	1
Terphenyl-d14	47		20 - 109	06/24/15 10:27	06/26/15 20:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062215-DJT-009

Date Collected: 06/22/15 15:15

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 20:44	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 20:44	1
Anthracene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzoic acid	ND		46	15	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/24/15 10:27	06/26/15 20:44	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/24/15 10:27	06/26/15 20:44	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/24/15 10:27	06/26/15 20:44	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/24/15 10:27	06/26/15 20:44	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:44	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/24/15 10:27	06/26/15 20:44	1
Chrysene	ND		1.9	0.29	ug/L		06/24/15 10:27	06/26/15 20:44	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/24/15 10:27	06/26/15 20:44	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/24/15 10:27	06/26/15 20:44	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/24/15 10:27	06/26/15 20:44	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 20:44	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/24/15 10:27	06/26/15 20:44	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/24/15 10:27	06/26/15 20:44	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/24/15 10:27	06/26/15 20:44	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 20:44	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:44	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 20:44	1
Fluoranthene	ND		1.9	0.20	ug/L		06/24/15 10:27	06/26/15 20:44	1
Fluorene	ND		1.9	0.22	ug/L		06/24/15 10:27	06/26/15 20:44	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/24/15 10:27	06/26/15 20:44	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/24/15 10:27	06/26/15 20:44	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:44	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/24/15 10:27	06/26/15 20:44	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/24/15 10:27	06/26/15 20:44	1
Isophorone	ND		9.3	0.68	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/24/15 10:27	06/26/15 20:44	1
Naphthalene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Nitroaniline	ND		46	6.2	ug/L		06/24/15 10:27	06/26/15 20:44	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062215-DJT-009

Date Collected: 06/22/15 15:15

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Nitroaniline	ND		46	7.2	ug/L		06/24/15 10:27	06/26/15 20:44	1
Nitrobenzene	ND		19	1.4	ug/L		06/24/15 10:27	06/26/15 20:44	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/24/15 10:27	06/26/15 20:44	1
4-Nitrophenol	ND		46	7.4	ug/L		06/24/15 10:27	06/26/15 20:44	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:44	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/24/15 10:27	06/26/15 20:44	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/24/15 10:27	06/26/15 20:44	1
Phenanthrene	ND		1.9	0.38	ug/L		06/24/15 10:27	06/26/15 20:44	1
Phenol	ND		9.3	0.51	ug/L		06/24/15 10:27	06/26/15 20:44	1
Pyrene	ND		1.9	0.21	ug/L		06/24/15 10:27	06/26/15 20:44	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/24/15 10:27	06/26/15 20:44	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/24/15 10:27	06/26/15 20:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	14	T J	ug/L		1.48		06/24/15 10:27	06/26/15 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		28 - 106	06/24/15 10:27	06/26/15 20:44	1
2-Fluorophenol	61		20 - 108	06/24/15 10:27	06/26/15 20:44	1
2,4,6-Tribromophenol	77		25 - 118	06/24/15 10:27	06/26/15 20:44	1
Nitrobenzene-d5	70		27 - 110	06/24/15 10:27	06/26/15 20:44	1
Phenol-d5	63		23 - 111	06/24/15 10:27	06/26/15 20:44	1
Terphenyl-d14	48		20 - 109	06/24/15 10:27	06/26/15 20:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-004

Date Collected: 06/22/15 12:20

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:19	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:19	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:19	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 20:19	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:19	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:19	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:19	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:19	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:19	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 20:19	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:19	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 20:19	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:19	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 20:19	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:19	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 20:19	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:19	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:19	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 20:19	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 130				06/24/15 08:49	07/01/15 20:19	1
Tetrachloro-m-xylene	80		45 - 130				06/24/15 08:49	07/01/15 20:19	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130				06/24/15 08:49	07/01/15 20:19	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130				06/24/15 08:49	07/01/15 20:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-005

Date Collected: 06/22/15 13:05

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:35	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:35	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:35	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 20:35	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:35	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:35	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:35	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:35	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:35	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 20:35	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:35	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 20:35	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:35	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 20:35	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:35	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 20:35	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:35	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:35	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 20:35	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		45 - 130	06/24/15 08:49	07/01/15 20:35	1
Tetrachloro-m-xylene	68		45 - 130	06/24/15 08:49	07/01/15 20:35	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/24/15 08:49	07/01/15 20:35	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/24/15 08:49	07/01/15 20:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-006

Date Collected: 06/22/15 13:40

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:50	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:50	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:50	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 20:50	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:50	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:50	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:50	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 20:50	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 20:50	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 20:50	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 20:50	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 20:50	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:50	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 20:50	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:50	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 20:50	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 20:50	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 20:50	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 20:50	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		45 - 130	06/24/15 08:49	07/01/15 20:50	1
Tetrachloro-m-xylene	78		45 - 130	06/24/15 08:49	07/01/15 20:50	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	06/24/15 08:49	07/01/15 20:50	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	06/24/15 08:49	07/01/15 20:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-007

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:06	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:06	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:06	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 21:06	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:06	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:06	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:06	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:06	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:06	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 21:06	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:06	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 21:06	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:06	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 21:06	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:06	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 21:06	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:06	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:06	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 21:06	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		45 - 130	06/24/15 08:49	07/01/15 21:06	1
Tetrachloro-m-xylene	85		45 - 130	06/24/15 08:49	07/01/15 21:06	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130	06/24/15 08:49	07/01/15 21:06	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	06/24/15 08:49	07/01/15 21:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-008

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:21	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:21	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:21	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 21:21	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:21	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:21	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:21	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:21	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:21	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 21:21	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:21	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 21:21	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:21	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 21:21	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:21	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 21:21	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:21	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:21	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 21:21	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		45 - 130	06/24/15 08:49	07/01/15 21:21	1
Tetrachloro-m-xylene	83		45 - 130	06/24/15 08:49	07/01/15 21:21	1
DCB Decachlorobiphenyl (Surr)	90		45 - 130	06/24/15 08:49	07/01/15 21:21	1
DCB Decachlorobiphenyl (Surr)	85		45 - 130	06/24/15 08:49	07/01/15 21:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062215-DJT-009

Date Collected: 06/22/15 15:15

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:37	1
alpha-BHC	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:37	1
beta-BHC	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:37	1
delta-BHC	ND		0.050	0.017	ug/L		06/24/15 08:49	07/01/15 21:37	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:37	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:37	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:37	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/24/15 08:49	07/01/15 21:37	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/24/15 08:49	07/01/15 21:37	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/24/15 08:49	07/01/15 21:37	1
Dieldrin	ND		0.050	0.033	ug/L		06/24/15 08:49	07/01/15 21:37	1
Endosulfan I	ND		0.050	0.038	ug/L		06/24/15 08:49	07/01/15 21:37	1
Endosulfan II	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:37	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/24/15 08:49	07/01/15 21:37	1
Endrin	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:37	1
Endrin ketone	ND		0.050	0.037	ug/L		06/24/15 08:49	07/01/15 21:37	1
Heptachlor	ND		0.050	0.040	ug/L		06/24/15 08:49	07/01/15 21:37	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/24/15 08:49	07/01/15 21:37	1
Methoxychlor	ND		0.10	0.037	ug/L		06/24/15 08:49	07/01/15 21:37	1
Toxaphene	ND		4.0	0.74	ug/L		06/24/15 08:49	07/01/15 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		45 - 130	06/24/15 08:49	07/01/15 21:37	1
Tetrachloro-m-xylene	82		45 - 130	06/24/15 08:49	07/01/15 21:37	1
DCB Decachlorobiphenyl (Surr)	90		45 - 130	06/24/15 08:49	07/01/15 21:37	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	06/24/15 08:49	07/01/15 21:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-004

Lab Sample ID: 180-45315-1

Date Collected: 06/22/15 12:20

Matrix: Water

Date Received: 06/23/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 17:16	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	69		35 - 140	06/24/15 08:49	06/25/15 17:16	1
Tetrachloro-m-xylene (Surr)	60		35 - 140	06/24/15 08:49	06/25/15 17:16	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/24/15 08:49	06/25/15 17:16	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/24/15 08:49	06/25/15 17:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-005

Date Collected: 06/22/15 13:05

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 17:38	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	58		35 - 140	06/24/15 08:49	06/25/15 17:38	1
Tetrachloro-m-xylene (Surr)	51		35 - 140	06/24/15 08:49	06/25/15 17:38	1
DCB Decachlorobiphenyl (Surr)	91		35 - 140	06/24/15 08:49	06/25/15 17:38	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	06/24/15 08:49	06/25/15 17:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-006

Lab Sample ID: 180-45315-3

Date Collected: 06/22/15 13:40

Matrix: Water

Date Received: 06/23/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 18:00	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	69		35 - 140	06/24/15 08:49	06/25/15 18:00	1
Tetrachloro-m-xylene (Surr)	61		35 - 140	06/24/15 08:49	06/25/15 18:00	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/24/15 08:49	06/25/15 18:00	1
DCB Decachlorobiphenyl (Surr)	97		35 - 140	06/24/15 08:49	06/25/15 18:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-007

Date Collected: 06/22/15 14:25

Date Received: 06/23/15 09:15

Lab Sample ID: 180-45315-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 18:22	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		35 - 140	06/24/15 08:49	06/25/15 18:22	1
Tetrachloro-m-xylene (Surr)	68		35 - 140	06/24/15 08:49	06/25/15 18:22	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/24/15 08:49	06/25/15 18:22	1
DCB Decachlorobiphenyl (Surr)	98		35 - 140	06/24/15 08:49	06/25/15 18:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-008

Lab Sample ID: 180-45315-5

Date Collected: 06/22/15 14:25

Matrix: Water

Date Received: 06/23/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 18:44	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		35 - 140	06/24/15 08:49	06/25/15 18:44	1
Tetrachloro-m-xylene (Surr)	66		35 - 140	06/24/15 08:49	06/25/15 18:44	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/24/15 08:49	06/25/15 18:44	1
DCB Decachlorobiphenyl (Surr)	98		35 - 140	06/24/15 08:49	06/25/15 18:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45315-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062215-DJT-009

Lab Sample ID: 180-45315-6

Date Collected: 06/22/15 15:15

Matrix: Water

Date Received: 06/23/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1221	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1232	ND		0.40	0.16	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1242	ND		0.40	0.074	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1248	ND		0.40	0.11	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1254	ND		0.40	0.12	ug/L		06/24/15 08:49	06/25/15 19:06	1
PCB-1260	ND		0.40	0.068	ug/L		06/24/15 08:49	06/25/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		35 - 140	06/24/15 08:49	06/25/15 19:06	1
Tetrachloro-m-xylene (Surr)	64		35 - 140	06/24/15 08:49	06/25/15 19:06	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/24/15 08:49	06/25/15 19:06	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/24/15 08:49	06/25/15 19:06	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: TEST AMERICA PITTSBURGH	
Laboratory Location: 301 ALPHA DRIVE PITTSBURGH, PA 15238	
Laboratory Contact: JILL COLUSSY	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-02-1	
SSOW Ref#:	
Sampler Name: SHAWN GARDNER	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Sample Condition		Remarks	
								Temp in C			
								Received on ice	Y/N		
								Sealed Cooler	Y/N		
								Samples Intact	Y/N		
WG-9954-062215-DJT-004					WG	06/22/2015	12:20	4	2	3	
WG-9954-062215-DJT-005					WG	06/22/2015	13:05	4	2	3	
WG-9954-062215-DJT-006					WG	06/22/2015	13:40	4	2	3	
WG-9954-062215-DJT-007					WG	06/22/2015	14:25	4	2	3	
WG-9954-062215-DJT-008					WG	06/22/2015	14:25	4	2	3	
WG-9954-062215-DJT-009					WG	06/22/2015	15:15	4	2	3	
LCTRIP-062215-DJT					WG Q	06/22/2015	00:00	-	-	3	
Total Bottles								24	12	21	Grand Total:57

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N



180-45315 Chain of Custody

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	6/22/15	1530	Jillie Watson TAP	6-23-15	
AIRBILL#:						9:15	

ANALYTICAL REPORT

Job Number: 180-45380-1

Job Description: 9954, Love Canal Annual

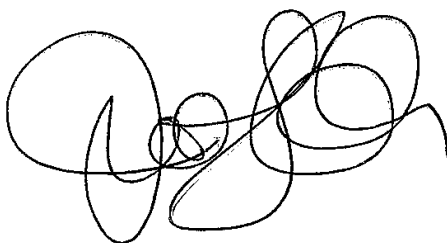
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/9/2015 5:20 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/09/2015

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: GHD Services Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45380-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/24/2015 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.6° C.

VOLATILES

The laboratory control standard for batch 180-146491 recovered outside of the control limits for 1,1-Dichloroethene and Vinyl acetate. As the recoveries were high and the samples were non-detect for these compounds, all data was reported.

SEMIVOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Client Sample ID: WG-9954-062315-SG-014

Lab Sample ID: 180-45380-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	9.8	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-062315-SG-012

Lab Sample ID: 180-45380-2

No Detections.

Client Sample ID: WG-9954-062315-SG-013

Lab Sample ID: 180-45380-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	4.2	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-062315-SG-010

Lab Sample ID: 180-45380-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	7.5	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: LCTRIP-062315

Lab Sample ID: 180-45380-5

No Detections.

Client Sample ID: WG-9954-062315-SG-011

Lab Sample ID: 180-45380-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062315-SG-014

Lab Sample ID: 180-45380-1

Date Collected: 06/23/15 14:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:29	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 17:29	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 17:29	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:29	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 17:29	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 17:29	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 17:29	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 17:29	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 17:29	1
Acetone	ND		20	5.0	ug/L			06/30/15 17:29	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 17:29	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 17:29	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 17:29	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 17:29	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 17:29	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 17:29	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 17:29	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 17:29	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 17:29	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 17:29	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 17:29	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 17:29	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 17:29	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 17:29	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 17:29	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 17:29	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 17:29	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 17:29	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 17:29	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 17:29	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 17:29	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 17:29	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 17:29	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 17:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		62 - 123		06/30/15 17:29	1
4-Bromofluorobenzene (Surr)	84		75 - 120		06/30/15 17:29	1
Dibromofluoromethane (Surr)	94		80 - 120		06/30/15 17:29	1
Toluene-d8 (Surr)	103		80 - 120		06/30/15 17:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062315-SG-012

Date Collected: 06/23/15 12:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:53	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 17:53	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 17:53	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:53	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 17:53	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 17:53	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 17:53	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 17:53	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 17:53	1
Acetone	ND		20	5.0	ug/L			06/30/15 17:53	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 17:53	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 17:53	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 17:53	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 17:53	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 17:53	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 17:53	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 17:53	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 17:53	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 17:53	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 17:53	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 17:53	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 17:53	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 17:53	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 17:53	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 17:53	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 17:53	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 17:53	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 17:53	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 17:53	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 17:53	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 17:53	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 17:53	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 17:53	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 17:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		06/30/15 17:53	1
4-Bromofluorobenzene (Surr)	89		75 - 120		06/30/15 17:53	1
Dibromofluoromethane (Surr)	93		80 - 120		06/30/15 17:53	1
Toluene-d8 (Surr)	106		80 - 120		06/30/15 17:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062315-SG-013

Date Collected: 06/23/15 13:45

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 18:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 18:18	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 18:18	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 18:18	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 18:18	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 18:18	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 18:18	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 18:18	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 18:18	1
Acetone	ND		20	5.0	ug/L			06/30/15 18:18	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 18:18	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 18:18	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 18:18	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 18:18	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 18:18	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 18:18	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 18:18	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 18:18	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 18:18	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 18:18	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 18:18	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 18:18	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 18:18	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 18:18	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 18:18	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 18:18	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 18:18	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 18:18	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 18:18	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 18:18	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 18:18	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 18:18	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 18:18	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 18:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexanal	12	T J N	ug/L		8.86	66-25-1		06/30/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		62 - 123		06/30/15 18:18	1
4-Bromofluorobenzene (Surr)	90		75 - 120		06/30/15 18:18	1
Dibromofluoromethane (Surr)	94		80 - 120		06/30/15 18:18	1
Toluene-d8 (Surr)	108		80 - 120		06/30/15 18:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062315-SG-010

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 18:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 18:42	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 18:42	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 18:42	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 18:42	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 18:42	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 18:42	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 18:42	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 18:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 18:42	1
Acetone	ND		20	5.0	ug/L			06/30/15 18:42	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 18:42	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 18:42	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 18:42	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 18:42	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 18:42	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 18:42	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 18:42	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 18:42	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 18:42	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 18:42	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 18:42	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 18:42	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 18:42	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 18:42	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 18:42	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 18:42	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 18:42	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 18:42	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 18:42	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 18:42	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 18:42	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 18:42	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 18:42	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 18:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 123		06/30/15 18:42	1
4-Bromofluorobenzene (Surr)	83		75 - 120		06/30/15 18:42	1
Dibromofluoromethane (Surr)	91		80 - 120		06/30/15 18:42	1
Toluene-d8 (Surr)	101		80 - 120		06/30/15 18:42	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-062315

Date Collected: 06/23/15 00:00

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 17:04	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 17:04	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 17:04	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 17:04	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 17:04	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 17:04	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 17:04	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 17:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 17:04	1
Acetone	ND		20	5.0	ug/L			06/30/15 17:04	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 17:04	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 17:04	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 17:04	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 17:04	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 17:04	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 17:04	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 17:04	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 17:04	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 17:04	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 17:04	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 17:04	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 17:04	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 17:04	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 17:04	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 17:04	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 17:04	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 17:04	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 17:04	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 17:04	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 17:04	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 17:04	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 17:04	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 17:04	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 17:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 123		06/30/15 17:04	1
4-Bromofluorobenzene (Surr)	91		75 - 120		06/30/15 17:04	1
Dibromofluoromethane (Surr)	97		80 - 120		06/30/15 17:04	1
Toluene-d8 (Surr)	110		80 - 120		06/30/15 17:04	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062315-SG-011

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 19:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 19:07	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 19:07	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 19:07	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 19:07	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 19:07	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 19:07	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 19:07	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 19:07	1
Acetone	ND		20	5.0	ug/L			06/30/15 19:07	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 19:07	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 19:07	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 19:07	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 19:07	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 19:07	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 19:07	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 19:07	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 19:07	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 19:07	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 19:07	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 19:07	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 19:07	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 19:07	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 19:07	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 19:07	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 19:07	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 19:07	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 19:07	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 19:07	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 19:07	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 19:07	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 19:07	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 19:07	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 19:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 123		06/30/15 19:07	1
4-Bromofluorobenzene (Surr)	91		75 - 120		06/30/15 19:07	1
Dibromofluoromethane (Surr)	101		80 - 120		06/30/15 19:07	1
Toluene-d8 (Surr)	110		80 - 120		06/30/15 19:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062315-SG-014

Lab Sample ID: 180-45380-1

Date Collected: 06/23/15 14:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 14:31	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 14:31	1
Anthracene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzoic acid	ND		46	15	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/29/15 11:26	07/06/15 14:31	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/29/15 11:26	07/06/15 14:31	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/29/15 11:26	07/06/15 14:31	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/29/15 11:26	07/06/15 14:31	1
Bis(2-ethylhexyl) phthalate	9.8	J	19	4.1	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:31	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/29/15 11:26	07/06/15 14:31	1
Chrysene	ND		1.9	0.29	ug/L		06/29/15 11:26	07/06/15 14:31	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/29/15 11:26	07/06/15 14:31	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/29/15 11:26	07/06/15 14:31	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/29/15 11:26	07/06/15 14:31	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 14:31	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/29/15 11:26	07/06/15 14:31	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/29/15 11:26	07/06/15 14:31	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 14:31	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 14:31	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:31	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 14:31	1
Fluoranthene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 14:31	1
Fluorene	ND		1.9	0.22	ug/L		06/29/15 11:26	07/06/15 14:31	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/29/15 11:26	07/06/15 14:31	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/29/15 11:26	07/06/15 14:31	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:31	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:31	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/29/15 11:26	07/06/15 14:31	1
Isophorone	ND		9.3	0.68	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 14:31	1
Naphthalene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Nitroaniline	ND		46	6.2	ug/L		06/29/15 11:26	07/06/15 14:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062315-SG-014

Date Collected: 06/23/15 14:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Nitroaniline	ND		46	7.2	ug/L		06/29/15 11:26	07/06/15 14:31	1
Nitrobenzene	ND		19	1.4	ug/L		06/29/15 11:26	07/06/15 14:31	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 14:31	1
4-Nitrophenol	ND		46	7.4	ug/L		06/29/15 11:26	07/06/15 14:31	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:31	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/29/15 11:26	07/06/15 14:31	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/29/15 11:26	07/06/15 14:31	1
Phenanthrene	ND		1.9	0.38	ug/L		06/29/15 11:26	07/06/15 14:31	1
Phenol	ND		9.3	0.51	ug/L		06/29/15 11:26	07/06/15 14:31	1
Pyrene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 14:31	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:31	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/29/15 11:26	07/06/15 14:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.6	T J	ug/L		11.61		06/29/15 11:26	07/06/15 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		28 - 106	06/29/15 11:26	07/06/15 14:31	1
2-Fluorophenol	59		20 - 108	06/29/15 11:26	07/06/15 14:31	1
2,4,6-Tribromophenol	68		25 - 118	06/29/15 11:26	07/06/15 14:31	1
Nitrobenzene-d5	62		27 - 110	06/29/15 11:26	07/06/15 14:31	1
Phenol-d5	61		23 - 111	06/29/15 11:26	07/06/15 14:31	1
Terphenyl-d14	45		20 - 109	06/29/15 11:26	07/06/15 14:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062315-SG-012

Date Collected: 06/23/15 12:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 14:58	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 14:58	1
Anthracene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzoic acid	ND		46	15	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/29/15 11:26	07/06/15 14:58	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/29/15 11:26	07/06/15 14:58	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/29/15 11:26	07/06/15 14:58	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/29/15 11:26	07/06/15 14:58	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:58	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/29/15 11:26	07/06/15 14:58	1
Chrysene	ND		1.9	0.29	ug/L		06/29/15 11:26	07/06/15 14:58	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/29/15 11:26	07/06/15 14:58	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/29/15 11:26	07/06/15 14:58	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/29/15 11:26	07/06/15 14:58	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 14:58	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/29/15 11:26	07/06/15 14:58	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/29/15 11:26	07/06/15 14:58	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 14:58	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 14:58	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:58	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 14:58	1
Fluoranthene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 14:58	1
Fluorene	ND		1.9	0.22	ug/L		06/29/15 11:26	07/06/15 14:58	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/29/15 11:26	07/06/15 14:58	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/29/15 11:26	07/06/15 14:58	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:58	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 14:58	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/29/15 11:26	07/06/15 14:58	1
Isophorone	ND		9.3	0.68	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 14:58	1
Naphthalene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Nitroaniline	ND		46	6.2	ug/L		06/29/15 11:26	07/06/15 14:58	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062315-SG-012

Date Collected: 06/23/15 12:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Nitroaniline	ND		46	7.2	ug/L		06/29/15 11:26	07/06/15 14:58	1
Nitrobenzene	ND		19	1.4	ug/L		06/29/15 11:26	07/06/15 14:58	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 14:58	1
4-Nitrophenol	ND		46	7.4	ug/L		06/29/15 11:26	07/06/15 14:58	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:58	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/29/15 11:26	07/06/15 14:58	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/29/15 11:26	07/06/15 14:58	1
Phenanthrene	ND		1.9	0.38	ug/L		06/29/15 11:26	07/06/15 14:58	1
Phenol	ND		9.3	0.51	ug/L		06/29/15 11:26	07/06/15 14:58	1
Pyrene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 14:58	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 14:58	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/29/15 11:26	07/06/15 14:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.1	T J	ug/L		10.01		06/29/15 11:26	07/06/15 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		28 - 106	06/29/15 11:26	07/06/15 14:58	1
2-Fluorophenol	57		20 - 108	06/29/15 11:26	07/06/15 14:58	1
2,4,6-Tribromophenol	59		25 - 118	06/29/15 11:26	07/06/15 14:58	1
Nitrobenzene-d5	60		27 - 110	06/29/15 11:26	07/06/15 14:58	1
Phenol-d5	60		23 - 111	06/29/15 11:26	07/06/15 14:58	1
Terphenyl-d14	27		20 - 109	06/29/15 11:26	07/06/15 14:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062315-SG-013

Date Collected: 06/23/15 13:45

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 15:25	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 15:25	1
Anthracene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzoic acid	ND		46	15	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/29/15 11:26	07/06/15 15:25	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/29/15 11:26	07/06/15 15:25	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/29/15 11:26	07/06/15 15:25	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/29/15 11:26	07/06/15 15:25	1
Bis(2-ethylhexyl) phthalate	4.2	J	19	4.1	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:25	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/29/15 11:26	07/06/15 15:25	1
Chrysene	ND		1.9	0.29	ug/L		06/29/15 11:26	07/06/15 15:25	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/29/15 11:26	07/06/15 15:25	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/29/15 11:26	07/06/15 15:25	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/29/15 11:26	07/06/15 15:25	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 15:25	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/29/15 11:26	07/06/15 15:25	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/29/15 11:26	07/06/15 15:25	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 15:25	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 15:25	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:25	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 15:25	1
Fluoranthene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 15:25	1
Fluorene	ND		1.9	0.22	ug/L		06/29/15 11:26	07/06/15 15:25	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/29/15 11:26	07/06/15 15:25	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/29/15 11:26	07/06/15 15:25	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:25	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:25	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/29/15 11:26	07/06/15 15:25	1
Isophorone	ND		9.3	0.68	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 15:25	1
Naphthalene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Nitroaniline	ND		46	6.2	ug/L		06/29/15 11:26	07/06/15 15:25	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062315-SG-013

Date Collected: 06/23/15 13:45

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Nitroaniline	ND		46	7.2	ug/L		06/29/15 11:26	07/06/15 15:25	1
Nitrobenzene	ND		19	1.4	ug/L		06/29/15 11:26	07/06/15 15:25	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 15:25	1
4-Nitrophenol	ND		46	7.4	ug/L		06/29/15 11:26	07/06/15 15:25	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:25	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/29/15 11:26	07/06/15 15:25	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/29/15 11:26	07/06/15 15:25	1
Phenanthrene	ND		1.9	0.38	ug/L		06/29/15 11:26	07/06/15 15:25	1
Phenol	ND		9.3	0.51	ug/L		06/29/15 11:26	07/06/15 15:25	1
Pyrene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 15:25	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:25	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/29/15 11:26	07/06/15 15:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/29/15 11:26	07/06/15 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		28 - 106	06/29/15 11:26	07/06/15 15:25	1
2-Fluorophenol	60		20 - 108	06/29/15 11:26	07/06/15 15:25	1
2,4,6-Tribromophenol	67		25 - 118	06/29/15 11:26	07/06/15 15:25	1
Nitrobenzene-d5	66		27 - 110	06/29/15 11:26	07/06/15 15:25	1
Phenol-d5	64		23 - 111	06/29/15 11:26	07/06/15 15:25	1
Terphenyl-d14	22		20 - 109	06/29/15 11:26	07/06/15 15:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062315-SG-010

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 15:51	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 15:51	1
Anthracene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzoic acid	ND		46	15	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/29/15 11:26	07/06/15 15:51	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/29/15 11:26	07/06/15 15:51	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/29/15 11:26	07/06/15 15:51	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/29/15 11:26	07/06/15 15:51	1
Bis(2-ethylhexyl) phthalate	7.5	J	19	4.1	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:51	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/29/15 11:26	07/06/15 15:51	1
Chrysene	ND		1.9	0.29	ug/L		06/29/15 11:26	07/06/15 15:51	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/29/15 11:26	07/06/15 15:51	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/29/15 11:26	07/06/15 15:51	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/29/15 11:26	07/06/15 15:51	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 15:51	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/29/15 11:26	07/06/15 15:51	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/29/15 11:26	07/06/15 15:51	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/06/15 15:51	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 15:51	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:51	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 15:51	1
Fluoranthene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/06/15 15:51	1
Fluorene	ND		1.9	0.22	ug/L		06/29/15 11:26	07/06/15 15:51	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/29/15 11:26	07/06/15 15:51	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/29/15 11:26	07/06/15 15:51	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:51	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/29/15 11:26	07/06/15 15:51	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/29/15 11:26	07/06/15 15:51	1
Isophorone	ND		9.3	0.68	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/29/15 11:26	07/06/15 15:51	1
Naphthalene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Nitroaniline	ND		46	6.2	ug/L		06/29/15 11:26	07/06/15 15:51	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062315-SG-010

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Nitroaniline	ND		46	7.2	ug/L		06/29/15 11:26	07/06/15 15:51	1
Nitrobenzene	ND		19	1.4	ug/L		06/29/15 11:26	07/06/15 15:51	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/29/15 11:26	07/06/15 15:51	1
4-Nitrophenol	ND		46	7.4	ug/L		06/29/15 11:26	07/06/15 15:51	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:51	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/29/15 11:26	07/06/15 15:51	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/29/15 11:26	07/06/15 15:51	1
Phenanthrene	ND		1.9	0.38	ug/L		06/29/15 11:26	07/06/15 15:51	1
Phenol	ND		9.3	0.51	ug/L		06/29/15 11:26	07/06/15 15:51	1
Pyrene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/06/15 15:51	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/29/15 11:26	07/06/15 15:51	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/29/15 11:26	07/06/15 15:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/29/15 11:26	07/06/15 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		28 - 106	06/29/15 11:26	07/06/15 15:51	1
2-Fluorophenol	54		20 - 108	06/29/15 11:26	07/06/15 15:51	1
2,4,6-Tribromophenol	61		25 - 118	06/29/15 11:26	07/06/15 15:51	1
Nitrobenzene-d5	57		27 - 110	06/29/15 11:26	07/06/15 15:51	1
Phenol-d5	56		23 - 111	06/29/15 11:26	07/06/15 15:51	1
Terphenyl-d14	28		20 - 109	06/29/15 11:26	07/06/15 15:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062315-SG-011

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/08/15 07:45	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/08/15 07:45	1
Anthracene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzoic acid	ND		46	15	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/29/15 11:26	07/08/15 07:45	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/29/15 11:26	07/08/15 07:45	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/29/15 11:26	07/08/15 07:45	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/29/15 11:26	07/08/15 07:45	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/29/15 11:26	07/08/15 07:45	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/29/15 11:26	07/08/15 07:45	1
Chrysene	ND		1.9	0.29	ug/L		06/29/15 11:26	07/08/15 07:45	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/29/15 11:26	07/08/15 07:45	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/29/15 11:26	07/08/15 07:45	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/29/15 11:26	07/08/15 07:45	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/29/15 11:26	07/08/15 07:45	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/29/15 11:26	07/08/15 07:45	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/29/15 11:26	07/08/15 07:45	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/29/15 11:26	07/08/15 07:45	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/29/15 11:26	07/08/15 07:45	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/08/15 07:45	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/29/15 11:26	07/08/15 07:45	1
Fluoranthene	ND		1.9	0.20	ug/L		06/29/15 11:26	07/08/15 07:45	1
Fluorene	ND		1.9	0.22	ug/L		06/29/15 11:26	07/08/15 07:45	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/29/15 11:26	07/08/15 07:45	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/29/15 11:26	07/08/15 07:45	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/29/15 11:26	07/08/15 07:45	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/29/15 11:26	07/08/15 07:45	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/29/15 11:26	07/08/15 07:45	1
Isophorone	ND		9.3	0.68	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/29/15 11:26	07/08/15 07:45	1
Naphthalene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Nitroaniline	ND		46	6.2	ug/L		06/29/15 11:26	07/08/15 07:45	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062315-SG-011

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Nitroaniline	ND		46	7.2	ug/L		06/29/15 11:26	07/08/15 07:45	1
Nitrobenzene	ND		19	1.4	ug/L		06/29/15 11:26	07/08/15 07:45	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/29/15 11:26	07/08/15 07:45	1
4-Nitrophenol	ND		46	7.4	ug/L		06/29/15 11:26	07/08/15 07:45	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/29/15 11:26	07/08/15 07:45	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/29/15 11:26	07/08/15 07:45	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/29/15 11:26	07/08/15 07:45	1
Phenanthrene	ND		1.9	0.38	ug/L		06/29/15 11:26	07/08/15 07:45	1
Phenol	ND		9.3	0.51	ug/L		06/29/15 11:26	07/08/15 07:45	1
Pyrene	ND		1.9	0.21	ug/L		06/29/15 11:26	07/08/15 07:45	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/29/15 11:26	07/08/15 07:45	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/29/15 11:26	07/08/15 07:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/29/15 11:26	07/08/15 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		28 - 106	06/29/15 11:26	07/08/15 07:45	1
2-Fluorophenol	71		20 - 108	06/29/15 11:26	07/08/15 07:45	1
2,4,6-Tribromophenol	75		25 - 118	06/29/15 11:26	07/08/15 07:45	1
Nitrobenzene-d5	70		27 - 110	06/29/15 11:26	07/08/15 07:45	1
Phenol-d5	72		23 - 111	06/29/15 11:26	07/08/15 07:45	1
Terphenyl-d14	60		20 - 109	06/29/15 11:26	07/08/15 07:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062315-SG-014

Lab Sample ID: 180-45380-1

Date Collected: 06/23/15 14:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:51	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:51	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:51	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 19:51	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:51	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:51	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:51	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:51	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:51	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 19:51	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:51	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 19:51	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:51	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 19:51	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:51	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 19:51	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:51	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:51	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 19:51	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		45 - 130	06/29/15 08:50	07/07/15 19:51	1
Tetrachloro-m-xylene	74		45 - 130	06/29/15 08:50	07/07/15 19:51	1
DCB Decachlorobiphenyl (Surr)	85		45 - 130	06/29/15 08:50	07/07/15 19:51	1
DCB Decachlorobiphenyl (Surr)	80		45 - 130	06/29/15 08:50	07/07/15 19:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062315-SG-012

Date Collected: 06/23/15 12:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:07	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:07	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:07	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 20:07	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:07	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:07	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:07	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:07	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:07	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 20:07	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:07	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 20:07	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:07	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 20:07	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:07	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 20:07	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:07	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:07	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 20:07	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 130	06/29/15 08:50	07/07/15 20:07	1
Tetrachloro-m-xylene	76		45 - 130	06/29/15 08:50	07/07/15 20:07	1
DCB Decachlorobiphenyl (Surr)	92		45 - 130	06/29/15 08:50	07/07/15 20:07	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	06/29/15 08:50	07/07/15 20:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062315-SG-013

Lab Sample ID: 180-45380-3

Date Collected: 06/23/15 13:45

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:22	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:22	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:22	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 20:22	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:22	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:22	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:22	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:22	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:22	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 20:22	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:22	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 20:22	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:22	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 20:22	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:22	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 20:22	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:22	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:22	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 20:22	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 130	06/29/15 08:50	07/07/15 20:22	1
Tetrachloro-m-xylene	69		45 - 130	06/29/15 08:50	07/07/15 20:22	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/29/15 08:50	07/07/15 20:22	1
DCB Decachlorobiphenyl (Surr)	79		45 - 130	06/29/15 08:50	07/07/15 20:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062315-SG-010

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:38	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:38	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:38	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 20:38	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:38	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:38	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:38	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:38	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:38	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 20:38	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:38	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 20:38	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:38	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 20:38	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:38	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 20:38	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:38	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:38	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 20:38	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 130	06/29/15 08:50	07/07/15 20:38	1
Tetrachloro-m-xylene	77		45 - 130	06/29/15 08:50	07/07/15 20:38	1
DCB Decachlorobiphenyl (Surr)	90		45 - 130	06/29/15 08:50	07/07/15 20:38	1
DCB Decachlorobiphenyl (Surr)	83		45 - 130	06/29/15 08:50	07/07/15 20:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062315-SG-011

Date Collected: 06/23/15 11:25

Date Received: 06/24/15 08:45

Lab Sample ID: 180-45380-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:53	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:53	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:53	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 20:53	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:53	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:53	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:53	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 20:53	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 20:53	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 20:53	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 20:53	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 20:53	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:53	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 20:53	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:53	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 20:53	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 20:53	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 20:53	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 20:53	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		45 - 130	06/29/15 08:50	07/07/15 20:53	1
Tetrachloro-m-xylene	77		45 - 130	06/29/15 08:50	07/07/15 20:53	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	06/29/15 08:50	07/07/15 20:53	1
DCB Decachlorobiphenyl (Surr)	80		45 - 130	06/29/15 08:50	07/07/15 20:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062315-SG-014

Lab Sample ID: 180-45380-1

Date Collected: 06/23/15 14:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 15:04	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		35 - 140	06/29/15 08:50	06/30/15 15:04	1
Tetrachloro-m-xylene (Surr)	80		35 - 140	06/29/15 08:50	06/30/15 15:04	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/29/15 08:50	06/30/15 15:04	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 15:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062315-SG-012

Lab Sample ID: 180-45380-2

Date Collected: 06/23/15 12:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 15:23	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 15:23	1
Tetrachloro-m-xylene (Surr)	85		35 - 140	06/29/15 08:50	06/30/15 15:23	1
DCB Decachlorobiphenyl (Surr)	97		35 - 140	06/29/15 08:50	06/30/15 15:23	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/29/15 08:50	06/30/15 15:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062315-SG-013

Lab Sample ID: 180-45380-3

Date Collected: 06/23/15 13:45

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 15:41	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		35 - 140	06/29/15 08:50	06/30/15 15:41	1
Tetrachloro-m-xylene (Surr)	76		35 - 140	06/29/15 08:50	06/30/15 15:41	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 15:41	1
DCB Decachlorobiphenyl (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 15:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062315-SG-010

Lab Sample ID: 180-45380-4

Date Collected: 06/23/15 11:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 16:00	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 16:00	1
Tetrachloro-m-xylene (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 16:00	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/29/15 08:50	06/30/15 16:00	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 16:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062315-SG-011

Lab Sample ID: 180-45380-6

Date Collected: 06/23/15 11:25

Matrix: Water

Date Received: 06/24/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 16:19	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	87		35 - 140	06/29/15 08:50	06/30/15 16:19	1
Tetrachloro-m-xylene (Surr)	83		35 - 140	06/29/15 08:50	06/30/15 16:19	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 16:19	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 16:19	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information

GLEN SPRINGS HOLDINGS INC Report To: Susan Scrocchi
 805 97TH STREET Copy To:
 LOVE CANAL
 NIAGARA FALLS, NEW YORK 14304 Invoice To:
 Phone: 716-283-0111 PO:
 Fax: 716-283-2856 Project Name: LOVE CANAL
 ANNUAL GW
 Email: sscrocchi@craworld.com Project Number: 9954

Lab Information

Laboratory: TEST AMERICA PITTSBURGH
 Laboratory Location: 301 ALPHA DRIVE
 PITTSBURGH, PA 15238
 Laboratory Contact: JILL COLUSSY
 Requested Due Date: TAT: 10
 QA/QC Requirements:

Event Information

ID#: LC ANNUAL GW SAMPLING-03-1

SSOW Ref#:

Sampler Name: SHAWN GARDNER

Valid Matrix Code
 WG Groundwater
 WB Borehole Water
 WS Surface Water
 SO Soil
 SE Sediment

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Sample Identification

Sample Identification	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
WG-9954-062315-SG-014	WG	06/23/2015	14:25	4	2	3	
WG-9954-062315-SG-012	WG	06/23/2015	12:25	4	2	3	
WG-9954-062315-SG-013	WG	06/23/2015	13:45	4	2	3	
WG-9954-062315-SG-010	WG	06/23/2015	11:25	4	2	3	
LCTRIIP-062315	WG Q	06/23/2015	00:00	-	-	3	
WG-9954-062315-SG-011	WG	06/23/2015	11:25	4	2	3	
Total Bottles				20	10	18	Grand Total:48

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	6/23/15	1520	Debbie Watson	6-24-15	8:45
AIRBILL#:							



180-45380 Chain of Custody

ANALYTICAL REPORT

Job Number: 180-45395-1

Job Description: 9954, Love Canal Annual

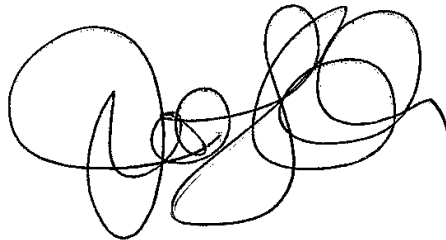
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/9/2015 5:36 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/09/2015

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: GHD Services Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45395-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/25/2015 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 3.6° C.

The TRIP BLANK did not have a sampling time listed on the chain of custody. The earliest sampling time was logged in as per the laboratory SOP.

VOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILES

The matrix spike/matrix spike duplicate of sample WG-9954-062415-SG-015 (180-45395-2) recovered outside of the control limits for several compounds.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Client Sample ID: WG-9954-062415-SG-018

Lab Sample ID: 180-45395-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chlorobenzene	1.9	J	5.0	0.53	ug/L	1			8260C	Total/NA
cis-1,2-Dichloroethene	4.9	J	5.0	0.67	ug/L	1			8260C	Total/NA
Trichloroethene	13		5.0	0.80	ug/L	1			8260C	Total/NA
1,2,4-Trichlorobenzene	5.1	J	9.3	0.79	ug/L	1			8270D	Total/NA
alpha-BHC	0.039	J	0.050	0.027	ug/L	1			8081B	Total/NA
delta-BHC	0.066		0.050	0.017	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-062415-SG-015

Lab Sample ID: 180-45395-2

No Detections.

Client Sample ID: WG-9954-062415-SG-016

Lab Sample ID: 180-45395-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	1.9	J	5.0	1.1	ug/L	1			8260C	Total/NA

Client Sample ID: LCTRIP-062415-SG

Lab Sample ID: 180-45395-4

No Detections.

Client Sample ID: WG-9954-062415-SG-019

Lab Sample ID: 180-45395-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chlorobenzene	2.0	J	5.0	0.53	ug/L	1			8260C	Total/NA
cis-1,2-Dichloroethene	4.8	J	5.0	0.67	ug/L	1			8260C	Total/NA
Trichloroethene	15		5.0	0.80	ug/L	1			8260C	Total/NA
1,2,4-Trichlorobenzene	6.6	J	9.3	0.79	ug/L	1			8270D	Total/NA
alpha-BHC	0.047	J	0.050	0.027	ug/L	1			8081B	Total/NA
delta-BHC	0.085		0.050	0.017	ug/L	1			8081B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062415-SG-018

Lab Sample ID: 180-45395-1

Date Collected: 06/24/15 14:45

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/06/15 21:06	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/06/15 21:06	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:06	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/06/15 21:06	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/06/15 21:06	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/06/15 21:06	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/06/15 21:06	1
2-Hexanone	ND		5.0	0.57	ug/L			07/06/15 21:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/06/15 21:06	1
Acetone	ND		20	5.0	ug/L			07/06/15 21:06	1
Benzene	ND		5.0	0.99	ug/L			07/06/15 21:06	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/06/15 21:06	1
Bromoform	ND		5.0	1.1	ug/L			07/06/15 21:06	1
Bromomethane	ND		5.0	1.6	ug/L			07/06/15 21:06	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/06/15 21:06	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/06/15 21:06	1
Chlorobenzene	1.9	J	5.0	0.53	ug/L			07/06/15 21:06	1
Chloroethane	ND		5.0	0.75	ug/L			07/06/15 21:06	1
Chloroform	ND		5.0	1.0	ug/L			07/06/15 21:06	1
Chloromethane	ND		5.0	1.4	ug/L			07/06/15 21:06	1
cis-1,2-Dichloroethene	4.9	J	5.0	0.67	ug/L			07/06/15 21:06	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/06/15 21:06	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/06/15 21:06	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/06/15 21:06	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/06/15 21:06	1
Styrene	ND		5.0	0.64	ug/L			07/06/15 21:06	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/06/15 21:06	1
Toluene	ND		5.0	0.85	ug/L			07/06/15 21:06	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/06/15 21:06	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/06/15 21:06	1
Trichloroethene	13		5.0	0.80	ug/L			07/06/15 21:06	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/06/15 21:06	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/06/15 21:06	1
Xylenes, Total	ND		10	1.7	ug/L			07/06/15 21:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		10.38			07/06/15 21:06	1
Unknown Benzene Derivative	19	T J	ug/L		10.97			07/06/15 21:06	1
Unknown Benzene Derivative	9.4	T J	ug/L		13.77			07/06/15 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 123		07/06/15 21:06	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/06/15 21:06	1
Dibromofluoromethane (Surr)	97		80 - 120		07/06/15 21:06	1
Toluene-d8 (Surr)	103		80 - 120		07/06/15 21:06	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062415-SG-015

Date Collected: 06/24/15 14:00

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/02/15 12:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/02/15 12:16	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/02/15 12:16	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/02/15 12:16	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/02/15 12:16	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/02/15 12:16	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/02/15 12:16	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/02/15 12:16	1
2-Hexanone	ND		5.0	0.57	ug/L			07/02/15 12:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/02/15 12:16	1
Acetone	ND		20	5.0	ug/L			07/02/15 12:16	1
Benzene	ND		5.0	0.99	ug/L			07/02/15 12:16	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/02/15 12:16	1
Bromoform	ND		5.0	1.1	ug/L			07/02/15 12:16	1
Bromomethane	ND		5.0	1.6	ug/L			07/02/15 12:16	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/02/15 12:16	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/02/15 12:16	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/02/15 12:16	1
Chloroethane	ND		5.0	0.75	ug/L			07/02/15 12:16	1
Chloroform	ND		5.0	1.0	ug/L			07/02/15 12:16	1
Chloromethane	ND		5.0	1.4	ug/L			07/02/15 12:16	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/02/15 12:16	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/02/15 12:16	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/02/15 12:16	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/02/15 12:16	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/02/15 12:16	1
Styrene	ND		5.0	0.64	ug/L			07/02/15 12:16	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/02/15 12:16	1
Toluene	ND		5.0	0.85	ug/L			07/02/15 12:16	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/02/15 12:16	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/02/15 12:16	1
Trichloroethene	ND		5.0	0.80	ug/L			07/02/15 12:16	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/02/15 12:16	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/02/15 12:16	1
Xylenes, Total	ND		10	1.7	ug/L			07/02/15 12:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/02/15 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		62 - 123		07/02/15 12:16	1
4-Bromofluorobenzene (Surr)	85		75 - 120		07/02/15 12:16	1
Dibromofluoromethane (Surr)	89		80 - 120		07/02/15 12:16	1
Toluene-d8 (Surr)	106		80 - 120		07/02/15 12:16	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062415-SG-016

Date Collected: 06/24/15 15:10

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/06/15 21:31	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/06/15 21:31	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:31	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/06/15 21:31	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/06/15 21:31	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/06/15 21:31	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/06/15 21:31	1
2-Hexanone	ND		5.0	0.57	ug/L			07/06/15 21:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/06/15 21:31	1
Acetone	ND		20	5.0	ug/L			07/06/15 21:31	1
Benzene	ND		5.0	0.99	ug/L			07/06/15 21:31	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/06/15 21:31	1
Bromoform	ND		5.0	1.1	ug/L			07/06/15 21:31	1
Bromomethane	ND		5.0	1.6	ug/L			07/06/15 21:31	1
Carbon disulfide	1.9	J	5.0	1.1	ug/L			07/06/15 21:31	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/06/15 21:31	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/06/15 21:31	1
Chloroethane	ND		5.0	0.75	ug/L			07/06/15 21:31	1
Chloroform	ND		5.0	1.0	ug/L			07/06/15 21:31	1
Chloromethane	ND		5.0	1.4	ug/L			07/06/15 21:31	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/06/15 21:31	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/06/15 21:31	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/06/15 21:31	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/06/15 21:31	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/06/15 21:31	1
Styrene	ND		5.0	0.64	ug/L			07/06/15 21:31	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/06/15 21:31	1
Toluene	ND		5.0	0.85	ug/L			07/06/15 21:31	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/06/15 21:31	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/06/15 21:31	1
Trichloroethene	ND		5.0	0.80	ug/L			07/06/15 21:31	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/06/15 21:31	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/06/15 21:31	1
Xylenes, Total	ND		10	1.7	ug/L			07/06/15 21:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Furan, tetrahydro-2-methyl-	19	T J N	ug/L		6.09	96-47-9		07/06/15 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 123		07/06/15 21:31	1
4-Bromofluorobenzene (Surr)	82		75 - 120		07/06/15 21:31	1
Dibromofluoromethane (Surr)	94		80 - 120		07/06/15 21:31	1
Toluene-d8 (Surr)	106		80 - 120		07/06/15 21:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTrip-062415-SG

Date Collected: 06/24/15 14:00

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/02/15 12:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/02/15 12:41	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/02/15 12:41	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/02/15 12:41	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/02/15 12:41	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/02/15 12:41	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/02/15 12:41	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/02/15 12:41	1
2-Hexanone	ND		5.0	0.57	ug/L			07/02/15 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/02/15 12:41	1
Acetone	ND		20	5.0	ug/L			07/02/15 12:41	1
Benzene	ND		5.0	0.99	ug/L			07/02/15 12:41	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/02/15 12:41	1
Bromoform	ND		5.0	1.1	ug/L			07/02/15 12:41	1
Bromomethane	ND		5.0	1.6	ug/L			07/02/15 12:41	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/02/15 12:41	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/02/15 12:41	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/02/15 12:41	1
Chloroethane	ND		5.0	0.75	ug/L			07/02/15 12:41	1
Chloroform	ND		5.0	1.0	ug/L			07/02/15 12:41	1
Chloromethane	ND		5.0	1.4	ug/L			07/02/15 12:41	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/02/15 12:41	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/02/15 12:41	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/02/15 12:41	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/02/15 12:41	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/02/15 12:41	1
Styrene	ND		5.0	0.64	ug/L			07/02/15 12:41	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/02/15 12:41	1
Toluene	ND		5.0	0.85	ug/L			07/02/15 12:41	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/02/15 12:41	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/02/15 12:41	1
Trichloroethene	ND		5.0	0.80	ug/L			07/02/15 12:41	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/02/15 12:41	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/02/15 12:41	1
Xylenes, Total	ND		10	1.7	ug/L			07/02/15 12:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/02/15 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		07/02/15 12:41	1
4-Bromofluorobenzene (Surr)	89		75 - 120		07/02/15 12:41	1
Dibromofluoromethane (Surr)	92		80 - 120		07/02/15 12:41	1
Toluene-d8 (Surr)	106		80 - 120		07/02/15 12:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062415-SG-019

Date Collected: 06/24/15 14:45

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/06/15 21:55	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/06/15 21:55	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/06/15 21:55	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/06/15 21:55	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/06/15 21:55	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/06/15 21:55	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/06/15 21:55	1
2-Hexanone	ND		5.0	0.57	ug/L			07/06/15 21:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/06/15 21:55	1
Acetone	ND		20	5.0	ug/L			07/06/15 21:55	1
Benzene	ND		5.0	0.99	ug/L			07/06/15 21:55	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/06/15 21:55	1
Bromoform	ND		5.0	1.1	ug/L			07/06/15 21:55	1
Bromomethane	ND		5.0	1.6	ug/L			07/06/15 21:55	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/06/15 21:55	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/06/15 21:55	1
Chlorobenzene	2.0	J	5.0	0.53	ug/L			07/06/15 21:55	1
Chloroethane	ND		5.0	0.75	ug/L			07/06/15 21:55	1
Chloroform	ND		5.0	1.0	ug/L			07/06/15 21:55	1
Chloromethane	ND		5.0	1.4	ug/L			07/06/15 21:55	1
cis-1,2-Dichloroethene	4.8	J	5.0	0.67	ug/L			07/06/15 21:55	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/06/15 21:55	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/06/15 21:55	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/06/15 21:55	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/06/15 21:55	1
Styrene	ND		5.0	0.64	ug/L			07/06/15 21:55	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/06/15 21:55	1
Toluene	ND		5.0	0.85	ug/L			07/06/15 21:55	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/06/15 21:55	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/06/15 21:55	1
Trichloroethene	15		5.0	0.80	ug/L			07/06/15 21:55	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/06/15 21:55	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/06/15 21:55	1
Xylenes, Total	ND		10	1.7	ug/L			07/06/15 21:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Benzene Derivative	14	T J	ug/L		10.38			07/06/15 21:55	1
Unknown Benzene Derivative	20	T J	ug/L		10.97			07/06/15 21:55	1
Unknown Benzene Derivative	10	T J	ug/L		13.77			07/06/15 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 123		07/06/15 21:55	1
4-Bromofluorobenzene (Surr)	85		75 - 120		07/06/15 21:55	1
Dibromofluoromethane (Surr)	99		80 - 120		07/06/15 21:55	1
Toluene-d8 (Surr)	105		80 - 120		07/06/15 21:55	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062415-SG-018

Lab Sample ID: 180-45395-1

Date Collected: 06/24/15 14:45

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 08:12	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 08:12	1
Anthracene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzoic acid	ND		46	15	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/30/15 11:12	07/08/15 08:12	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/30/15 11:12	07/08/15 08:12	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/30/15 11:12	07/08/15 08:12	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/30/15 11:12	07/08/15 08:12	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:12	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/30/15 11:12	07/08/15 08:12	1
Chrysene	ND		1.9	0.29	ug/L		06/30/15 11:12	07/08/15 08:12	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/30/15 11:12	07/08/15 08:12	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/30/15 11:12	07/08/15 08:12	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/30/15 11:12	07/08/15 08:12	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 08:12	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/30/15 11:12	07/08/15 08:12	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/30/15 11:12	07/08/15 08:12	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 08:12	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 08:12	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:12	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 08:12	1
Fluoranthene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 08:12	1
Fluorene	ND		1.9	0.22	ug/L		06/30/15 11:12	07/08/15 08:12	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/30/15 11:12	07/08/15 08:12	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/30/15 11:12	07/08/15 08:12	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:12	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:12	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/30/15 11:12	07/08/15 08:12	1
Isophorone	ND		9.3	0.68	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 08:12	1
Naphthalene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Nitroaniline	ND		46	6.2	ug/L		06/30/15 11:12	07/08/15 08:12	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062415-SG-018

Date Collected: 06/24/15 14:45

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Nitroaniline	ND		46	7.2	ug/L		06/30/15 11:12	07/08/15 08:12	1
Nitrobenzene	ND		19	1.4	ug/L		06/30/15 11:12	07/08/15 08:12	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 08:12	1
4-Nitrophenol	ND		46	7.4	ug/L		06/30/15 11:12	07/08/15 08:12	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:12	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/30/15 11:12	07/08/15 08:12	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/30/15 11:12	07/08/15 08:12	1
Phenanthrene	ND		1.9	0.38	ug/L		06/30/15 11:12	07/08/15 08:12	1
Phenol	ND		9.3	0.51	ug/L		06/30/15 11:12	07/08/15 08:12	1
Pyrene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 08:12	1
1,2,4-Trichlorobenzene	5.1	J	9.3	0.79	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:12	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/30/15 11:12	07/08/15 08:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3.9	T J	ug/L		10.74		06/30/15 11:12	07/08/15 08:12	1
Unknown	4.3	T J	ug/L		12.12		06/30/15 11:12	07/08/15 08:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		28 - 106	06/30/15 11:12	07/08/15 08:12	1
2-Fluorophenol	60		20 - 108	06/30/15 11:12	07/08/15 08:12	1
2,4,6-Tribromophenol	70		25 - 118	06/30/15 11:12	07/08/15 08:12	1
Nitrobenzene-d5	66		27 - 110	06/30/15 11:12	07/08/15 08:12	1
Phenol-d5	63		23 - 111	06/30/15 11:12	07/08/15 08:12	1
Terphenyl-d14	37		20 - 109	06/30/15 11:12	07/08/15 08:12	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062415-SG-015

Date Collected: 06/24/15 14:00

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/06/15 20:18	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/06/15 20:18	1
Anthracene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzoic acid	ND	F1	46	15	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/30/15 11:12	07/06/15 20:18	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/30/15 11:12	07/06/15 20:18	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/30/15 11:12	07/06/15 20:18	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/30/15 11:12	07/06/15 20:18	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/30/15 11:12	07/06/15 20:18	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/30/15 11:12	07/06/15 20:18	1
Chrysene	ND		1.9	0.29	ug/L		06/30/15 11:12	07/06/15 20:18	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/30/15 11:12	07/06/15 20:18	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/30/15 11:12	07/06/15 20:18	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/30/15 11:12	07/06/15 20:18	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/30/15 11:12	07/06/15 20:18	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/30/15 11:12	07/06/15 20:18	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/30/15 11:12	07/06/15 20:18	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/06/15 20:18	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/30/15 11:12	07/06/15 20:18	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/06/15 20:18	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/30/15 11:12	07/06/15 20:18	1
Fluoranthene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/06/15 20:18	1
Fluorene	ND		1.9	0.22	ug/L		06/30/15 11:12	07/06/15 20:18	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/30/15 11:12	07/06/15 20:18	1
Hexachlorobutadiene	ND	F1	9.3	0.87	ug/L		06/30/15 11:12	07/06/15 20:18	1
Hexachlorocyclopentadiene	ND	F1	9.3	1.3	ug/L		06/30/15 11:12	07/06/15 20:18	1
Hexachloroethane	ND	F1	9.3	1.3	ug/L		06/30/15 11:12	07/06/15 20:18	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/30/15 11:12	07/06/15 20:18	1
Isophorone	ND		9.3	0.68	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/30/15 11:12	07/06/15 20:18	1
Naphthalene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Nitroaniline	ND		46	6.2	ug/L		06/30/15 11:12	07/06/15 20:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062415-SG-015

Date Collected: 06/24/15 14:00

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Nitroaniline	ND		46	7.2	ug/L		06/30/15 11:12	07/06/15 20:18	1
Nitrobenzene	ND		19	1.4	ug/L		06/30/15 11:12	07/06/15 20:18	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/30/15 11:12	07/06/15 20:18	1
4-Nitrophenol	ND		46	7.4	ug/L		06/30/15 11:12	07/06/15 20:18	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/30/15 11:12	07/06/15 20:18	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/30/15 11:12	07/06/15 20:18	1
Pentachlorophenol	ND	F1	9.3	4.6	ug/L		06/30/15 11:12	07/06/15 20:18	1
Phenanthrene	ND		1.9	0.38	ug/L		06/30/15 11:12	07/06/15 20:18	1
Phenol	ND		9.3	0.51	ug/L		06/30/15 11:12	07/06/15 20:18	1
Pyrene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/06/15 20:18	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/30/15 11:12	07/06/15 20:18	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/30/15 11:12	07/06/15 20:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.3	T J	ug/L		16.17		06/30/15 11:12	07/06/15 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		28 - 106	06/30/15 11:12	07/06/15 20:18	1
2-Fluorophenol	48		20 - 108	06/30/15 11:12	07/06/15 20:18	1
2,4,6-Tribromophenol	51		25 - 118	06/30/15 11:12	07/06/15 20:18	1
Nitrobenzene-d5	53		27 - 110	06/30/15 11:12	07/06/15 20:18	1
Phenol-d5	45		23 - 111	06/30/15 11:12	07/06/15 20:18	1
Terphenyl-d14	21		20 - 109	06/30/15 11:12	07/06/15 20:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062415-SG-016

Date Collected: 06/24/15 15:10

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 08:38	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 08:38	1
Anthracene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzoic acid	ND		46	15	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/30/15 11:12	07/08/15 08:38	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/30/15 11:12	07/08/15 08:38	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/30/15 11:12	07/08/15 08:38	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/30/15 11:12	07/08/15 08:38	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:38	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/30/15 11:12	07/08/15 08:38	1
Chrysene	ND		1.9	0.29	ug/L		06/30/15 11:12	07/08/15 08:38	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/30/15 11:12	07/08/15 08:38	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/30/15 11:12	07/08/15 08:38	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/30/15 11:12	07/08/15 08:38	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 08:38	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/30/15 11:12	07/08/15 08:38	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/30/15 11:12	07/08/15 08:38	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 08:38	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 08:38	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:38	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 08:38	1
Fluoranthene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 08:38	1
Fluorene	ND		1.9	0.22	ug/L		06/30/15 11:12	07/08/15 08:38	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/30/15 11:12	07/08/15 08:38	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/30/15 11:12	07/08/15 08:38	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:38	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 08:38	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/30/15 11:12	07/08/15 08:38	1
Isophorone	ND		9.3	0.68	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 08:38	1
Naphthalene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Nitroaniline	ND		46	6.2	ug/L		06/30/15 11:12	07/08/15 08:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062415-SG-016

Date Collected: 06/24/15 15:10

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Nitroaniline	ND		46	7.2	ug/L		06/30/15 11:12	07/08/15 08:38	1
Nitrobenzene	ND		19	1.4	ug/L		06/30/15 11:12	07/08/15 08:38	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 08:38	1
4-Nitrophenol	ND		46	7.4	ug/L		06/30/15 11:12	07/08/15 08:38	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:38	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/30/15 11:12	07/08/15 08:38	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/30/15 11:12	07/08/15 08:38	1
Phenanthrene	ND		1.9	0.38	ug/L		06/30/15 11:12	07/08/15 08:38	1
Phenol	ND		9.3	0.51	ug/L		06/30/15 11:12	07/08/15 08:38	1
Pyrene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 08:38	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 08:38	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/30/15 11:12	07/08/15 08:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	15	T J	ug/L		8.79		06/30/15 11:12	07/08/15 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		28 - 106	06/30/15 11:12	07/08/15 08:38	1
2-Fluorophenol	68		20 - 108	06/30/15 11:12	07/08/15 08:38	1
2,4,6-Tribromophenol	71		25 - 118	06/30/15 11:12	07/08/15 08:38	1
Nitrobenzene-d5	70		27 - 110	06/30/15 11:12	07/08/15 08:38	1
Phenol-d5	69		23 - 111	06/30/15 11:12	07/08/15 08:38	1
Terphenyl-d14	54		20 - 109	06/30/15 11:12	07/08/15 08:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062415-SG-019

Date Collected: 06/24/15 14:45

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 09:05	1
Acenaphthylene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 09:05	1
Anthracene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzoic acid	ND		46	15	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		06/30/15 11:12	07/08/15 09:05	1
Benzyl alcohol	ND		9.3	1.8	ug/L		06/30/15 11:12	07/08/15 09:05	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		06/30/15 11:12	07/08/15 09:05	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		06/30/15 11:12	07/08/15 09:05	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 09:05	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Chloroaniline	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Chlorophenol	ND		9.3	2.1	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		06/30/15 11:12	07/08/15 09:05	1
Chrysene	ND		1.9	0.29	ug/L		06/30/15 11:12	07/08/15 09:05	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		06/30/15 11:12	07/08/15 09:05	1
Dibenzofuran	ND		9.3	0.89	ug/L		06/30/15 11:12	07/08/15 09:05	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		06/30/15 11:12	07/08/15 09:05	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 09:05	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		06/30/15 11:12	07/08/15 09:05	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		06/30/15 11:12	07/08/15 09:05	1
Diethyl phthalate	ND		9.3	2.7	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		06/30/15 11:12	07/08/15 09:05	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 09:05	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4-Dinitrophenol	ND		46	23	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 09:05	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 09:05	1
Fluoranthene	ND		1.9	0.20	ug/L		06/30/15 11:12	07/08/15 09:05	1
Fluorene	ND		1.9	0.22	ug/L		06/30/15 11:12	07/08/15 09:05	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		06/30/15 11:12	07/08/15 09:05	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		06/30/15 11:12	07/08/15 09:05	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 09:05	1
Hexachloroethane	ND		9.3	1.3	ug/L		06/30/15 11:12	07/08/15 09:05	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		06/30/15 11:12	07/08/15 09:05	1
Isophorone	ND		9.3	0.68	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Methylphenol	ND		9.3	1.7	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Methylphenol	ND		9.3	1.9	ug/L		06/30/15 11:12	07/08/15 09:05	1
Naphthalene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Nitroaniline	ND		46	6.2	ug/L		06/30/15 11:12	07/08/15 09:05	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062415-SG-019

Date Collected: 06/24/15 14:45

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Nitroaniline	ND		46	7.2	ug/L		06/30/15 11:12	07/08/15 09:05	1
Nitrobenzene	ND		19	1.4	ug/L		06/30/15 11:12	07/08/15 09:05	1
2-Nitrophenol	ND		9.3	1.0	ug/L		06/30/15 11:12	07/08/15 09:05	1
4-Nitrophenol	ND		46	7.4	ug/L		06/30/15 11:12	07/08/15 09:05	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 09:05	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		06/30/15 11:12	07/08/15 09:05	1
Pentachlorophenol	ND		9.3	4.6	ug/L		06/30/15 11:12	07/08/15 09:05	1
Phenanthrene	ND		1.9	0.38	ug/L		06/30/15 11:12	07/08/15 09:05	1
Phenol	ND		9.3	0.51	ug/L		06/30/15 11:12	07/08/15 09:05	1
Pyrene	ND		1.9	0.21	ug/L		06/30/15 11:12	07/08/15 09:05	1
1,2,4-Trichlorobenzene	6.6	J	9.3	0.79	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		06/30/15 11:12	07/08/15 09:05	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		06/30/15 11:12	07/08/15 09:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/30/15 11:12	07/08/15 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		28 - 106	06/30/15 11:12	07/08/15 09:05	1
2-Fluorophenol	72		20 - 108	06/30/15 11:12	07/08/15 09:05	1
2,4,6-Tribromophenol	80		25 - 118	06/30/15 11:12	07/08/15 09:05	1
Nitrobenzene-d5	77		27 - 110	06/30/15 11:12	07/08/15 09:05	1
Phenol-d5	76		23 - 111	06/30/15 11:12	07/08/15 09:05	1
Terphenyl-d14	47		20 - 109	06/30/15 11:12	07/08/15 09:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062415-SG-018

Lab Sample ID: 180-45395-1

Date Collected: 06/24/15 14:45

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 14:40	1
alpha-BHC	0.039	J	0.050	0.027	ug/L		06/29/15 08:50	07/07/15 14:40	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 14:40	1
delta-BHC	0.066		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 14:40	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 14:40	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:40	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:40	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 14:40	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 14:40	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 14:40	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 14:40	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 14:40	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:40	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 14:40	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:40	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 14:40	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 14:40	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:40	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 14:40	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 130	06/29/15 08:50	07/07/15 14:40	1
Tetrachloro-m-xylene	70		45 - 130	06/29/15 08:50	07/07/15 14:40	1
DCB Decachlorobiphenyl (Surr)	76		45 - 130	06/29/15 08:50	07/07/15 14:40	1
DCB Decachlorobiphenyl (Surr)	73		45 - 130	06/29/15 08:50	07/07/15 14:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062415-SG-015

Date Collected: 06/24/15 14:00

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 14:56	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 14:56	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 14:56	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 14:56	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 14:56	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:56	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:56	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 14:56	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 14:56	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 14:56	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 14:56	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 14:56	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:56	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 14:56	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:56	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 14:56	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 14:56	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 14:56	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 14:56	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		45 - 130	06/29/15 08:50	07/07/15 14:56	1
Tetrachloro-m-xylene	71		45 - 130	06/29/15 08:50	07/07/15 14:56	1
DCB Decachlorobiphenyl (Surr)	79		45 - 130	06/29/15 08:50	07/07/15 14:56	1
DCB Decachlorobiphenyl (Surr)	75		45 - 130	06/29/15 08:50	07/07/15 14:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062415-SG-016

Date Collected: 06/24/15 15:10

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 15:42	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 15:42	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 15:42	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 15:42	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 15:42	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 15:42	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 15:42	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 15:42	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 15:42	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 15:42	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 15:42	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 15:42	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 15:42	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 15:42	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 15:42	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 15:42	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 15:42	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 15:42	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 15:42	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		45 - 130	06/29/15 08:50	07/07/15 15:42	1
Tetrachloro-m-xylene	70		45 - 130	06/29/15 08:50	07/07/15 15:42	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/29/15 08:50	07/07/15 15:42	1
DCB Decachlorobiphenyl (Surr)	77		45 - 130	06/29/15 08:50	07/07/15 15:42	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062415-SG-019

Date Collected: 06/24/15 14:45

Date Received: 06/25/15 08:45

Lab Sample ID: 180-45395-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:16	1
alpha-BHC	0.047	J	0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:16	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:16	1
delta-BHC	0.085		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 17:16	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:16	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:16	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:16	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:16	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:16	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 17:16	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:16	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 17:16	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:16	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 17:16	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:16	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 17:16	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:16	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:16	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 17:16	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 130	06/29/15 08:50	07/07/15 17:16	1
Tetrachloro-m-xylene	77		45 - 130	06/29/15 08:50	07/07/15 17:16	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	06/29/15 08:50	07/07/15 17:16	1
DCB Decachlorobiphenyl (Surr)	83		45 - 130	06/29/15 08:50	07/07/15 17:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062415-SG-018

Lab Sample ID: 180-45395-1

Date Collected: 06/24/15 14:45

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 09:45	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		35 - 140	06/29/15 08:50	06/30/15 09:45	1
Tetrachloro-m-xylene (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 09:45	1
DCB Decachlorobiphenyl (Surr)	87		35 - 140	06/29/15 08:50	06/30/15 09:45	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 09:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062415-SG-015

Lab Sample ID: 180-45395-2

Date Collected: 06/24/15 14:00

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 10:04	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	83		35 - 140	06/29/15 08:50	06/30/15 10:04	1
Tetrachloro-m-xylene (Surr)	81		35 - 140	06/29/15 08:50	06/30/15 10:04	1
DCB Decachlorobiphenyl (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 10:04	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 10:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062415-SG-016

Lab Sample ID: 180-45395-3

Date Collected: 06/24/15 15:10

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 11:00	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	80		35 - 140	06/29/15 08:50	06/30/15 11:00	1
Tetrachloro-m-xylene (Surr)	76		35 - 140	06/29/15 08:50	06/30/15 11:00	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 11:00	1
DCB Decachlorobiphenyl (Surr)	91		35 - 140	06/29/15 08:50	06/30/15 11:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45395-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062415-SG-019

Lab Sample ID: 180-45395-5

Date Collected: 06/24/15 14:45

Matrix: Water

Date Received: 06/25/15 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 11:19	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	118		35 - 140	06/29/15 08:50	06/30/15 11:19	1
Tetrachloro-m-xylene (Surr)	107		35 - 140	06/29/15 08:50	06/30/15 11:19	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 11:19	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 11:19	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: TEST AMERICA PITTSBURGH	
Laboratory Location: 301 ALPHA DRIVE PITTSBURGH, PA 15238	
Laboratory Contact: JILL COLUSSY	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-04-1	
SSOW Ref#:	
Sampler Name: SHAWN GARDNER	

Sample Identification	Valid Matrix Code						Remarks
	WG Groundwater	WB Borehole Water	WS Surface Water	SO Soil	SE Sediment		
	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	
WG-9954-062415-SG-018	WG	06/24/2015	14:45	4	2	3	
WG-9954-062415-SG-015	WG	06/24/2015	14:00	12	6	9	MS/MSD
WG-9954-062415-SG-016	WG	06/24/2015	15:10	4	2	3	
LCTIP-062415-SG	WG Q	06/24/2015	00:00	-	-	3	
WG-9954-062415-SG-019	WG	06/24/2015	14:45	4	2	3	
Total Bottles				24	12	21	Grand Total:57

Sample Condition	
Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N



180-45395 Chain of Custody

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	6/24/15	16:30	Jennifer Watson	6-25-15	8:45
AIRBILL#:							

ANALYTICAL REPORT

Job Number: 180-45456-1

Job Description: 9954, Love Canal Annual

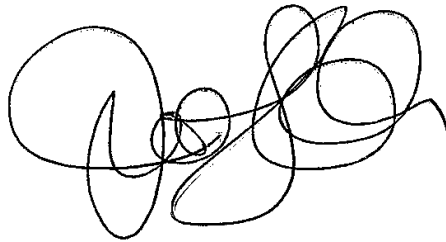
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/20/2015 3:46 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/20/2015

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Client Sample ID: LCTRIP-062515-SG

Lab Sample ID: 180-45456-1

No Detections.

Client Sample ID: RB-9954-062515-SG-026

Lab Sample ID: 180-45456-2

No Detections.

Client Sample ID: WG-9954-062515-SG-017

Lab Sample ID: 180-45456-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	8.0	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-062515-SG-020

Lab Sample ID: 180-45456-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	7.9	J	19	4.1	ug/L	1			8270D	Total/NA

Client Sample ID: WG-9954-062515-SG-021

Lab Sample ID: 180-45456-5

No Detections.

Client Sample ID: WG-9954-062515-SG-022

Lab Sample ID: 180-45456-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	8.3	J	19	4.1	ug/L	1			8270D	Total/NA
4,4'-DDD	0.045	J	0.050	0.027	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-062515-SG-023

Lab Sample ID: 180-45456-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	6200		500	99	ug/L	100			8260C	Total/NA
Chlorobenzene	2600		500	53	ug/L	100			8260C	Total/NA
Chloroform	180	J	500	100	ug/L	100			8260C	Total/NA
Methylene Chloride	150	J	500	110	ug/L	100			8260C	Total/NA
Toluene	17000	E	500	85	ug/L	100			8260C	Total/NA
Trichloroethene	110	J	500	80	ug/L	100			8260C	Total/NA
Benzene - DL	5600		2500	490	ug/L	500			8260C	Total/NA
Chlorobenzene - DL	2100	J	2500	260	ug/L	500			8260C	Total/NA
Toluene - DL	20000		2500	420	ug/L	500			8260C	Total/NA
Benzoic acid	14000	E	1200	380	ug/L	25			8270D	Total/NA
Benzyl alcohol	250		230	46	ug/L	25			8270D	Total/NA
Bis(2-chloroethyl)ether	27	J	230	7.3	ug/L	25			8270D	Total/NA
1,2-Dichlorobenzene	47	J	230	25	ug/L	25			8270D	Total/NA
2,4-Dichlorophenol	790		230	16	ug/L	25			8270D	Total/NA
2-Methylphenol	44	J	230	43	ug/L	25			8270D	Total/NA
4-Methylphenol	93	J	230	48	ug/L	25			8270D	Total/NA
Phenol	87	J	230	13	ug/L	25			8270D	Total/NA
Benzoic acid - DL	16000		4600	1500	ug/L	100			8270D	Total/NA
Benzyl alcohol - DL	360	J	930	180	ug/L	100			8270D	Total/NA
2,4-Dichlorophenol - DL	950		930	62	ug/L	100			8270D	Total/NA
Phenol - DL	100	J	930	51	ug/L	100			8270D	Total/NA
1,2,4-Trichlorobenzene - DL	80	J	930	79	ug/L	100			8270D	Total/NA
Aldrin	0.080	p	0.050	0.033	ug/L	1			8081B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Client Sample ID: WG-9954-062515-SG-023 (Continued)

Lab Sample ID: 180-45456-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
beta-BHC	4.7		0.050	0.040	ug/L	1			8081B	Total/NA
delta-BHC	7.4		0.050	0.017	ug/L	1			8081B	Total/NA
gamma-BHC (Lindane)	3.2		0.050	0.032	ug/L	1			8081B	Total/NA
gamma-Chlordane	1.1	p	0.050	0.039	ug/L	1			8081B	Total/NA
4,4'-DDD	0.40	p	0.050	0.027	ug/L	1			8081B	Total/NA
4,4'-DDE	0.033	J p	0.050	0.032	ug/L	1			8081B	Total/NA
Endosulfan I	0.066	p	0.050	0.038	ug/L	1			8081B	Total/NA
Endosulfan sulfate	0.035	J	0.050	0.023	ug/L	1			8081B	Total/NA
Endrin	1.4		0.050	0.039	ug/L	1			8081B	Total/NA
Heptachlor	0.38	p	0.050	0.040	ug/L	1			8081B	Total/NA
Heptachlor epoxide	0.097	p	0.050	0.039	ug/L	1			8081B	Total/NA
alpha-BHC - DL	20		0.25	0.13	ug/L	5			8081B	Total/NA

Client Sample ID: WG-9954-062515-SG-024

Lab Sample ID: 180-45456-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
delta-BHC	0.043	J p	0.050	0.017	ug/L	1			8081B	Total/NA
Endosulfan II	0.089	p	0.050	0.039	ug/L	1			8081B	Total/NA
Endosulfan sulfate	0.031	J p	0.050	0.023	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-062515-SG-025

Lab Sample ID: 180-45456-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	2.9	J	5.0	1.1	ug/L	1			8260C	Total/NA
4,4'-DDD	0.027	J p	0.050	0.027	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-062515-SG-027

Lab Sample ID: 180-45456-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Diethyl phthalate	2.7	J	9.3	2.7	ug/L	1			8270D	Total/NA
alpha-BHC	0.30		0.050	0.027	ug/L	1			8081B	Total/NA
delta-BHC	0.14		0.050	0.017	ug/L	1			8081B	Total/NA
gamma-BHC (Lindane)	0.26		0.050	0.032	ug/L	1			8081B	Total/NA
Methoxychlor	0.039	J p	0.10	0.037	ug/L	1			8081B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-062515-SG

Date Collected: 06/25/15 11:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 19:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 19:56	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 19:56	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 19:56	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 19:56	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 19:56	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 19:56	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 19:56	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 19:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 19:56	1
Acetone	ND		20	5.0	ug/L			06/30/15 19:56	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 19:56	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 19:56	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 19:56	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 19:56	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 19:56	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 19:56	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 19:56	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 19:56	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 19:56	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 19:56	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 19:56	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 19:56	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 19:56	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 19:56	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 19:56	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 19:56	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 19:56	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 19:56	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 19:56	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 19:56	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 19:56	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 19:56	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 19:56	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 19:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 123		06/30/15 19:56	1
4-Bromofluorobenzene (Surr)	85		75 - 120		06/30/15 19:56	1
Dibromofluoromethane (Surr)	94		80 - 120		06/30/15 19:56	1
Toluene-d8 (Surr)	101		80 - 120		06/30/15 19:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: RB-9954-062515-SG-026

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			06/30/15 20:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			06/30/15 20:21	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/30/15 20:21	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			06/30/15 20:21	1
1,1-Dichloroethene	ND	*	5.0	1.1	ug/L			06/30/15 20:21	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			06/30/15 20:21	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			06/30/15 20:21	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			06/30/15 20:21	1
2-Hexanone	ND		5.0	0.57	ug/L			06/30/15 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			06/30/15 20:21	1
Acetone	ND		20	5.0	ug/L			06/30/15 20:21	1
Benzene	ND		5.0	0.99	ug/L			06/30/15 20:21	1
Bromodichloromethane	ND		5.0	0.93	ug/L			06/30/15 20:21	1
Bromoform	ND		5.0	1.1	ug/L			06/30/15 20:21	1
Bromomethane	ND		5.0	1.6	ug/L			06/30/15 20:21	1
Carbon disulfide	ND		5.0	1.1	ug/L			06/30/15 20:21	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			06/30/15 20:21	1
Chlorobenzene	ND		5.0	0.53	ug/L			06/30/15 20:21	1
Chloroethane	ND		5.0	0.75	ug/L			06/30/15 20:21	1
Chloroform	ND		5.0	1.0	ug/L			06/30/15 20:21	1
Chloromethane	ND		5.0	1.4	ug/L			06/30/15 20:21	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			06/30/15 20:21	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			06/30/15 20:21	1
Dibromochloromethane	ND		5.0	0.65	ug/L			06/30/15 20:21	1
Ethylbenzene	ND		5.0	0.62	ug/L			06/30/15 20:21	1
Methylene Chloride	ND		5.0	1.1	ug/L			06/30/15 20:21	1
Styrene	ND		5.0	0.64	ug/L			06/30/15 20:21	1
Tetrachloroethene	ND		5.0	0.82	ug/L			06/30/15 20:21	1
Toluene	ND		5.0	0.85	ug/L			06/30/15 20:21	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			06/30/15 20:21	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			06/30/15 20:21	1
Trichloroethene	ND		5.0	0.80	ug/L			06/30/15 20:21	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			06/30/15 20:21	1
Vinyl chloride	ND		5.0	1.3	ug/L			06/30/15 20:21	1
Xylenes, Total	ND		10	1.7	ug/L			06/30/15 20:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/30/15 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 123		06/30/15 20:21	1
4-Bromofluorobenzene (Surr)	87		75 - 120		06/30/15 20:21	1
Dibromofluoromethane (Surr)	96		80 - 120		06/30/15 20:21	1
Toluene-d8 (Surr)	105		80 - 120		06/30/15 20:21	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-017

Date Collected: 06/25/15 11:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/01/15 19:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/01/15 19:16	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/01/15 19:16	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/01/15 19:16	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/01/15 19:16	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/01/15 19:16	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/01/15 19:16	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/01/15 19:16	1
2-Hexanone	ND		5.0	0.57	ug/L			07/01/15 19:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/01/15 19:16	1
Acetone	ND		20	5.0	ug/L			07/01/15 19:16	1
Benzene	ND		5.0	0.99	ug/L			07/01/15 19:16	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/01/15 19:16	1
Bromoform	ND		5.0	1.1	ug/L			07/01/15 19:16	1
Bromomethane	ND		5.0	1.6	ug/L			07/01/15 19:16	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/01/15 19:16	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/01/15 19:16	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/01/15 19:16	1
Chloroethane	ND		5.0	0.75	ug/L			07/01/15 19:16	1
Chloroform	ND		5.0	1.0	ug/L			07/01/15 19:16	1
Chloromethane	ND		5.0	1.4	ug/L			07/01/15 19:16	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/01/15 19:16	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/01/15 19:16	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/01/15 19:16	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/01/15 19:16	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/01/15 19:16	1
Styrene	ND		5.0	0.64	ug/L			07/01/15 19:16	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/01/15 19:16	1
Toluene	ND		5.0	0.85	ug/L			07/01/15 19:16	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/01/15 19:16	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/01/15 19:16	1
Trichloroethene	ND		5.0	0.80	ug/L			07/01/15 19:16	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			07/01/15 19:16	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/01/15 19:16	1
Xylenes, Total	ND		10	1.7	ug/L			07/01/15 19:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/01/15 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		62 - 123		07/01/15 19:16	1
4-Bromofluorobenzene (Surr)	88		75 - 120		07/01/15 19:16	1
Dibromofluoromethane (Surr)	100		80 - 120		07/01/15 19:16	1
Toluene-d8 (Surr)	106		80 - 120		07/01/15 19:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-020

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/01/15 19:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/01/15 19:40	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/01/15 19:40	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/01/15 19:40	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/01/15 19:40	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/01/15 19:40	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/01/15 19:40	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/01/15 19:40	1
2-Hexanone	ND		5.0	0.57	ug/L			07/01/15 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/01/15 19:40	1
Acetone	ND		20	5.0	ug/L			07/01/15 19:40	1
Benzene	ND		5.0	0.99	ug/L			07/01/15 19:40	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/01/15 19:40	1
Bromoform	ND		5.0	1.1	ug/L			07/01/15 19:40	1
Bromomethane	ND		5.0	1.6	ug/L			07/01/15 19:40	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/01/15 19:40	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/01/15 19:40	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/01/15 19:40	1
Chloroethane	ND		5.0	0.75	ug/L			07/01/15 19:40	1
Chloroform	ND		5.0	1.0	ug/L			07/01/15 19:40	1
Chloromethane	ND		5.0	1.4	ug/L			07/01/15 19:40	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/01/15 19:40	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/01/15 19:40	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/01/15 19:40	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/01/15 19:40	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/01/15 19:40	1
Styrene	ND		5.0	0.64	ug/L			07/01/15 19:40	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/01/15 19:40	1
Toluene	ND		5.0	0.85	ug/L			07/01/15 19:40	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/01/15 19:40	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/01/15 19:40	1
Trichloroethene	ND		5.0	0.80	ug/L			07/01/15 19:40	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			07/01/15 19:40	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/01/15 19:40	1
Xylenes, Total	ND		10	1.7	ug/L			07/01/15 19:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/01/15 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 123		07/01/15 19:40	1
4-Bromofluorobenzene (Surr)	92		75 - 120		07/01/15 19:40	1
Dibromofluoromethane (Surr)	103		80 - 120		07/01/15 19:40	1
Toluene-d8 (Surr)	109		80 - 120		07/01/15 19:40	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-021

Date Collected: 06/25/15 12:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/01/15 20:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/01/15 20:05	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/01/15 20:05	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/01/15 20:05	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/01/15 20:05	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/01/15 20:05	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/01/15 20:05	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/01/15 20:05	1
2-Hexanone	ND		5.0	0.57	ug/L			07/01/15 20:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/01/15 20:05	1
Acetone	ND		20	5.0	ug/L			07/01/15 20:05	1
Benzene	ND		5.0	0.99	ug/L			07/01/15 20:05	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/01/15 20:05	1
Bromoform	ND		5.0	1.1	ug/L			07/01/15 20:05	1
Bromomethane	ND		5.0	1.6	ug/L			07/01/15 20:05	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/01/15 20:05	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/01/15 20:05	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/01/15 20:05	1
Chloroethane	ND		5.0	0.75	ug/L			07/01/15 20:05	1
Chloroform	ND		5.0	1.0	ug/L			07/01/15 20:05	1
Chloromethane	ND		5.0	1.4	ug/L			07/01/15 20:05	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/01/15 20:05	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/01/15 20:05	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/01/15 20:05	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/01/15 20:05	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/01/15 20:05	1
Styrene	ND		5.0	0.64	ug/L			07/01/15 20:05	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/01/15 20:05	1
Toluene	ND		5.0	0.85	ug/L			07/01/15 20:05	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/01/15 20:05	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/01/15 20:05	1
Trichloroethene	ND		5.0	0.80	ug/L			07/01/15 20:05	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			07/01/15 20:05	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/01/15 20:05	1
Xylenes, Total	ND		10	1.7	ug/L			07/01/15 20:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/01/15 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 123		07/01/15 20:05	1
4-Bromofluorobenzene (Surr)	96		75 - 120		07/01/15 20:05	1
Dibromofluoromethane (Surr)	102		80 - 120		07/01/15 20:05	1
Toluene-d8 (Surr)	114		80 - 120		07/01/15 20:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-022

Date Collected: 06/25/15 13:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/01/15 20:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/01/15 20:30	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/01/15 20:30	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/01/15 20:30	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/01/15 20:30	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/01/15 20:30	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/01/15 20:30	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/01/15 20:30	1
2-Hexanone	ND		5.0	0.57	ug/L			07/01/15 20:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/01/15 20:30	1
Acetone	ND		20	5.0	ug/L			07/01/15 20:30	1
Benzene	ND		5.0	0.99	ug/L			07/01/15 20:30	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/01/15 20:30	1
Bromoform	ND		5.0	1.1	ug/L			07/01/15 20:30	1
Bromomethane	ND		5.0	1.6	ug/L			07/01/15 20:30	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/01/15 20:30	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/01/15 20:30	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/01/15 20:30	1
Chloroethane	ND		5.0	0.75	ug/L			07/01/15 20:30	1
Chloroform	ND		5.0	1.0	ug/L			07/01/15 20:30	1
Chloromethane	ND		5.0	1.4	ug/L			07/01/15 20:30	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/01/15 20:30	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/01/15 20:30	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/01/15 20:30	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/01/15 20:30	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/01/15 20:30	1
Styrene	ND		5.0	0.64	ug/L			07/01/15 20:30	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/01/15 20:30	1
Toluene	ND		5.0	0.85	ug/L			07/01/15 20:30	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/01/15 20:30	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/01/15 20:30	1
Trichloroethene	ND		5.0	0.80	ug/L			07/01/15 20:30	1
Vinyl acetate	ND	*	5.0	0.86	ug/L			07/01/15 20:30	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/01/15 20:30	1
Xylenes, Total	ND		10	1.7	ug/L			07/01/15 20:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/01/15 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		62 - 123		07/01/15 20:30	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/01/15 20:30	1
Dibromofluoromethane (Surr)	97		80 - 120		07/01/15 20:30	1
Toluene-d8 (Surr)	103		80 - 120		07/01/15 20:30	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		500	100	ug/L			07/02/15 18:01	100
1,1,2,2-Tetrachloroethane	ND		500	93	ug/L			07/02/15 18:01	100
1,1,2-Trichloroethane	ND		500	120	ug/L			07/02/15 18:01	100
1,1-Dichloroethane	ND		500	100	ug/L			07/02/15 18:01	100
1,1-Dichloroethene	ND		500	110	ug/L			07/02/15 18:01	100
1,2-Dichloroethane	ND		500	96	ug/L			07/02/15 18:01	100
1,2-Dichloropropane	ND		500	130	ug/L			07/02/15 18:01	100
2-Butanone (MEK)	ND		500	110	ug/L			07/02/15 18:01	100
2-Hexanone	ND		500	57	ug/L			07/02/15 18:01	100
4-Methyl-2-pentanone (MIBK)	ND		500	59	ug/L			07/02/15 18:01	100
Acetone	ND		2000	500	ug/L			07/02/15 18:01	100
Benzene	6200		500	99	ug/L			07/02/15 18:01	100
Bromodichloromethane	ND		500	93	ug/L			07/02/15 18:01	100
Bromoform	ND		500	110	ug/L			07/02/15 18:01	100
Bromomethane	ND		500	160	ug/L			07/02/15 18:01	100
Carbon disulfide	ND		500	110	ug/L			07/02/15 18:01	100
Carbon tetrachloride	ND		500	110	ug/L			07/02/15 18:01	100
Chlorobenzene	2600		500	53	ug/L			07/02/15 18:01	100
Chloroethane	ND		500	75	ug/L			07/02/15 18:01	100
Chloroform	180 J		500	100	ug/L			07/02/15 18:01	100
Chloromethane	ND		500	140	ug/L			07/02/15 18:01	100
cis-1,2-Dichloroethene	ND		500	67	ug/L			07/02/15 18:01	100
cis-1,3-Dichloropropene	ND		500	73	ug/L			07/02/15 18:01	100
Dibromochloromethane	ND		500	65	ug/L			07/02/15 18:01	100
Ethylbenzene	ND		500	62	ug/L			07/02/15 18:01	100
Methylene Chloride	150 J		500	110	ug/L			07/02/15 18:01	100
Styrene	ND		500	64	ug/L			07/02/15 18:01	100
Tetrachloroethene	ND		500	82	ug/L			07/02/15 18:01	100
Toluene	17000 E		500	85	ug/L			07/02/15 18:01	100
trans-1,2-Dichloroethene	ND		500	75	ug/L			07/02/15 18:01	100
trans-1,3-Dichloropropene	ND		500	58	ug/L			07/02/15 18:01	100
Trichloroethene	110 J		500	80	ug/L			07/02/15 18:01	100
Vinyl acetate	ND		500	86	ug/L			07/02/15 18:01	100
Vinyl chloride	ND		500	130	ug/L			07/02/15 18:01	100
Xylenes, Total	ND		1000	170	ug/L			07/02/15 18:01	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1-chloro-2-methyl-	18000	T J N	ug/L		10.97	95-49-8		07/02/15 18:01	100
Benzene, 1-chloro-4-methyl-	8700	T J N	ug/L		11.09	106-43-4		07/02/15 18:01	100
Unknown Benzene Derivative	1300	T J	ug/L		13.10			07/02/15 18:01	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 123		07/02/15 18:01	100
4-Bromofluorobenzene (Surr)	96		75 - 120		07/02/15 18:01	100
Dibromofluoromethane (Surr)	104		80 - 120		07/02/15 18:01	100
Toluene-d8 (Surr)	105		80 - 120		07/02/15 18:01	100

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-024

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/02/15 17:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/02/15 17:36	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/02/15 17:36	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/02/15 17:36	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/02/15 17:36	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/02/15 17:36	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/02/15 17:36	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/02/15 17:36	1
2-Hexanone	ND		5.0	0.57	ug/L			07/02/15 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/02/15 17:36	1
Acetone	ND		20	5.0	ug/L			07/02/15 17:36	1
Benzene	ND		5.0	0.99	ug/L			07/02/15 17:36	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/02/15 17:36	1
Bromoform	ND		5.0	1.1	ug/L			07/02/15 17:36	1
Bromomethane	ND		5.0	1.6	ug/L			07/02/15 17:36	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/02/15 17:36	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/02/15 17:36	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/02/15 17:36	1
Chloroethane	ND		5.0	0.75	ug/L			07/02/15 17:36	1
Chloroform	ND		5.0	1.0	ug/L			07/02/15 17:36	1
Chloromethane	ND		5.0	1.4	ug/L			07/02/15 17:36	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/02/15 17:36	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/02/15 17:36	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/02/15 17:36	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/02/15 17:36	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/02/15 17:36	1
Styrene	ND		5.0	0.64	ug/L			07/02/15 17:36	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/02/15 17:36	1
Toluene	ND		5.0	0.85	ug/L			07/02/15 17:36	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/02/15 17:36	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/02/15 17:36	1
Trichloroethene	ND		5.0	0.80	ug/L			07/02/15 17:36	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/02/15 17:36	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/02/15 17:36	1
Xylenes, Total	ND		10	1.7	ug/L			07/02/15 17:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	41	T J N	ug/L		1.36	7446-09-5		07/02/15 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		62 - 123		07/02/15 17:36	1
4-Bromofluorobenzene (Surr)	87		75 - 120		07/02/15 17:36	1
Dibromofluoromethane (Surr)	98		80 - 120		07/02/15 17:36	1
Toluene-d8 (Surr)	104		80 - 120		07/02/15 17:36	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-025

Date Collected: 06/25/15 13:30

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/02/15 17:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/02/15 17:11	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/02/15 17:11	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/02/15 17:11	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/02/15 17:11	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/02/15 17:11	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/02/15 17:11	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/02/15 17:11	1
2-Hexanone	ND		5.0	0.57	ug/L			07/02/15 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/02/15 17:11	1
Acetone	ND		20	5.0	ug/L			07/02/15 17:11	1
Benzene	ND		5.0	0.99	ug/L			07/02/15 17:11	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/02/15 17:11	1
Bromoform	ND		5.0	1.1	ug/L			07/02/15 17:11	1
Bromomethane	ND		5.0	1.6	ug/L			07/02/15 17:11	1
Carbon disulfide	2.9	J	5.0	1.1	ug/L			07/02/15 17:11	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/02/15 17:11	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/02/15 17:11	1
Chloroethane	ND		5.0	0.75	ug/L			07/02/15 17:11	1
Chloroform	ND		5.0	1.0	ug/L			07/02/15 17:11	1
Chloromethane	ND		5.0	1.4	ug/L			07/02/15 17:11	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/02/15 17:11	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/02/15 17:11	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/02/15 17:11	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/02/15 17:11	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/02/15 17:11	1
Styrene	ND		5.0	0.64	ug/L			07/02/15 17:11	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/02/15 17:11	1
Toluene	ND		5.0	0.85	ug/L			07/02/15 17:11	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/02/15 17:11	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/02/15 17:11	1
Trichloroethene	ND		5.0	0.80	ug/L			07/02/15 17:11	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/02/15 17:11	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/02/15 17:11	1
Xylenes, Total	ND		10	1.7	ug/L			07/02/15 17:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	34	T J	ug/L		1.36			07/02/15 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 123		07/02/15 17:11	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/02/15 17:11	1
Dibromofluoromethane (Surr)	99		80 - 120		07/02/15 17:11	1
Toluene-d8 (Surr)	109		80 - 120		07/02/15 17:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062515-SG-027

Date Collected: 06/25/15 15:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/02/15 16:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/02/15 16:47	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/02/15 16:47	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/02/15 16:47	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/02/15 16:47	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/02/15 16:47	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/02/15 16:47	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/02/15 16:47	1
2-Hexanone	ND		5.0	0.57	ug/L			07/02/15 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/02/15 16:47	1
Acetone	ND		20	5.0	ug/L			07/02/15 16:47	1
Benzene	ND		5.0	0.99	ug/L			07/02/15 16:47	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/02/15 16:47	1
Bromoform	ND		5.0	1.1	ug/L			07/02/15 16:47	1
Bromomethane	ND		5.0	1.6	ug/L			07/02/15 16:47	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/02/15 16:47	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/02/15 16:47	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/02/15 16:47	1
Chloroethane	ND		5.0	0.75	ug/L			07/02/15 16:47	1
Chloroform	ND		5.0	1.0	ug/L			07/02/15 16:47	1
Chloromethane	ND		5.0	1.4	ug/L			07/02/15 16:47	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/02/15 16:47	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/02/15 16:47	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/02/15 16:47	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/02/15 16:47	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/02/15 16:47	1
Styrene	ND		5.0	0.64	ug/L			07/02/15 16:47	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/02/15 16:47	1
Toluene	ND		5.0	0.85	ug/L			07/02/15 16:47	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/02/15 16:47	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/02/15 16:47	1
Trichloroethene	ND		5.0	0.80	ug/L			07/02/15 16:47	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/02/15 16:47	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/02/15 16:47	1
Xylenes, Total	ND		10	1.7	ug/L			07/02/15 16:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/02/15 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		62 - 123		07/02/15 16:47	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/02/15 16:47	1
Dibromofluoromethane (Surr)	96		80 - 120		07/02/15 16:47	1
Toluene-d8 (Surr)	105		80 - 120		07/02/15 16:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Client Sample ID: WG-9954-062515-SG-023

Lab Sample ID: 180-45456-7

Date Collected: 06/25/15 14:20

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2500	510	ug/L			07/06/15 20:42	500
1,1,2,2-Tetrachloroethane	ND		2500	470	ug/L			07/06/15 20:42	500
1,1,2-Trichloroethane	ND		2500	580	ug/L			07/06/15 20:42	500
1,1-Dichloroethane	ND		2500	510	ug/L			07/06/15 20:42	500
1,1-Dichloroethene	ND		2500	530	ug/L			07/06/15 20:42	500
1,2-Dichloroethane	ND		2500	480	ug/L			07/06/15 20:42	500
1,2-Dichloropropane	ND		2500	640	ug/L			07/06/15 20:42	500
2-Butanone (MEK)	ND		2500	540	ug/L			07/06/15 20:42	500
2-Hexanone	ND		2500	280	ug/L			07/06/15 20:42	500
4-Methyl-2-pentanone (MIBK)	ND		2500	300	ug/L			07/06/15 20:42	500
Acetone	ND		10000	2500	ug/L			07/06/15 20:42	500
Benzene	5600		2500	490	ug/L			07/06/15 20:42	500
Bromodichloromethane	ND		2500	470	ug/L			07/06/15 20:42	500
Bromoform	ND		2500	530	ug/L			07/06/15 20:42	500
Bromomethane	ND		2500	790	ug/L			07/06/15 20:42	500
Carbon disulfide	ND		2500	540	ug/L			07/06/15 20:42	500
Carbon tetrachloride	ND		2500	540	ug/L			07/06/15 20:42	500
Chlorobenzene	2100	J	2500	260	ug/L			07/06/15 20:42	500
Chloroethane	ND		2500	370	ug/L			07/06/15 20:42	500
Chloroform	ND		2500	500	ug/L			07/06/15 20:42	500
Chloromethane	ND		2500	700	ug/L			07/06/15 20:42	500
cis-1,2-Dichloroethene	ND		2500	330	ug/L			07/06/15 20:42	500
cis-1,3-Dichloropropene	ND		2500	360	ug/L			07/06/15 20:42	500
Dibromochloromethane	ND		2500	320	ug/L			07/06/15 20:42	500
Ethylbenzene	ND		2500	310	ug/L			07/06/15 20:42	500
Methylene Chloride	ND		2500	540	ug/L			07/06/15 20:42	500
Styrene	ND		2500	320	ug/L			07/06/15 20:42	500
Tetrachloroethene	ND		2500	410	ug/L			07/06/15 20:42	500
Toluene	20000		2500	420	ug/L			07/06/15 20:42	500
trans-1,2-Dichloroethene	ND		2500	380	ug/L			07/06/15 20:42	500
trans-1,3-Dichloropropene	ND		2500	290	ug/L			07/06/15 20:42	500
Trichloroethene	ND		2500	400	ug/L			07/06/15 20:42	500
Vinyl acetate	ND		2500	430	ug/L			07/06/15 20:42	500
Vinyl chloride	ND		2500	650	ug/L			07/06/15 20:42	500
Xylenes, Total	ND		5000	840	ug/L			07/06/15 20:42	500

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Benzene Derivative	18000	T J	ug/L		10.97			07/06/15 20:42	500
Unknown Benzene Derivative	7900	T J	ug/L		11.10			07/06/15 20:42	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		07/06/15 20:42	500
4-Bromofluorobenzene (Surr)	86		75 - 120		07/06/15 20:42	500
Dibromofluoromethane (Surr)	100		80 - 120		07/06/15 20:42	500
Toluene-d8 (Surr)	111		80 - 120		07/06/15 20:42	500

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: RB-9954-062515-SG-026

Lab Sample ID: 180-45456-2

Date Collected: 06/25/15 14:20

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/08/15 19:06	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/08/15 19:06	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/08/15 19:06	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/08/15 19:06	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/08/15 19:06	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/08/15 19:06	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:06	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/08/15 19:06	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/08/15 19:06	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/08/15 19:06	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/08/15 19:06	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/08/15 19:06	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/08/15 19:06	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/08/15 19:06	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/08/15 19:06	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/08/15 19:06	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/08/15 19:06	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:06	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/08/15 19:06	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/08/15 19:06	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/08/15 19:06	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/08/15 19:06	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/08/15 19:06	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:06	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:06	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/08/15 19:06	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/08/15 19:06	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/08/15 19:06	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-9954-062515-SG-026

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/08/15 19:06	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/08/15 19:06	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/08/15 19:06	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/08/15 19:06	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:06	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/08/15 19:06	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/08/15 19:06	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/08/15 19:06	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/08/15 19:06	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/08/15 19:06	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:06	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/08/15 19:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	14	T J	ug/L		11.70		07/02/15 09:35	07/08/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		28 - 106	07/02/15 09:35	07/08/15 19:06	1
2-Fluorophenol	68		20 - 108	07/02/15 09:35	07/08/15 19:06	1
2,4,6-Tribromophenol	68		25 - 118	07/02/15 09:35	07/08/15 19:06	1
Nitrobenzene-d5	80		27 - 110	07/02/15 09:35	07/08/15 19:06	1
Phenol-d5	73		23 - 111	07/02/15 09:35	07/08/15 19:06	1
Terphenyl-d14	70		20 - 109	07/02/15 09:35	07/08/15 19:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-017

Date Collected: 06/25/15 11:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/08/15 19:33	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/08/15 19:33	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/08/15 19:33	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/08/15 19:33	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/08/15 19:33	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/08/15 19:33	1
Bis(2-ethylhexyl) phthalate	8.0	J	19	4.1	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:33	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/08/15 19:33	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/08/15 19:33	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/08/15 19:33	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/08/15 19:33	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/08/15 19:33	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/08/15 19:33	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/08/15 19:33	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/08/15 19:33	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/08/15 19:33	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/08/15 19:33	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:33	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/08/15 19:33	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/08/15 19:33	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/08/15 19:33	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/08/15 19:33	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/08/15 19:33	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:33	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/08/15 19:33	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/08/15 19:33	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/08/15 19:33	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/08/15 19:33	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-017

Date Collected: 06/25/15 11:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/08/15 19:33	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/08/15 19:33	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/08/15 19:33	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/08/15 19:33	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:33	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/08/15 19:33	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/08/15 19:33	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/08/15 19:33	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/08/15 19:33	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/08/15 19:33	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/08/15 19:33	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/08/15 19:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	16	T J	ug/L		12.00		07/02/15 09:35	07/08/15 19:33	1
Unknown	12	T J	ug/L		12.15		07/02/15 09:35	07/08/15 19:33	1
Unknown	5.8	T J	ug/L		12.99		07/02/15 09:35	07/08/15 19:33	1
Unknown	4.3	T J	ug/L		13.14		07/02/15 09:35	07/08/15 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		28 - 106	07/02/15 09:35	07/08/15 19:33	1
2-Fluorophenol	67		20 - 108	07/02/15 09:35	07/08/15 19:33	1
2,4,6-Tribromophenol	77		25 - 118	07/02/15 09:35	07/08/15 19:33	1
Nitrobenzene-d5	80		27 - 110	07/02/15 09:35	07/08/15 19:33	1
Phenol-d5	72		23 - 111	07/02/15 09:35	07/08/15 19:33	1
Terphenyl-d14	68		20 - 109	07/02/15 09:35	07/08/15 19:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-020

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/10/15 17:47	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/10/15 17:47	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/10/15 17:47	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/10/15 17:47	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/10/15 17:47	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/10/15 17:47	1
Bis(2-ethylhexyl) phthalate	7.9	J	19	4.1	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 17:47	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/10/15 17:47	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/10/15 17:47	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/10/15 17:47	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/10/15 17:47	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/10/15 17:47	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/10/15 17:47	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/10/15 17:47	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/10/15 17:47	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/10/15 17:47	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/10/15 17:47	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 17:47	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/10/15 17:47	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/10/15 17:47	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/10/15 17:47	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/10/15 17:47	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/10/15 17:47	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 17:47	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 17:47	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/10/15 17:47	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/10/15 17:47	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/10/15 17:47	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-020

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/10/15 17:47	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/10/15 17:47	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/10/15 17:47	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/10/15 17:47	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 17:47	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/10/15 17:47	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/10/15 17:47	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/10/15 17:47	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/10/15 17:47	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/10/15 17:47	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 17:47	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/10/15 17:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		12.04		07/02/15 09:35	07/10/15 17:47	1
Unknown	4.3	T J	ug/L		13.19		07/02/15 09:35	07/10/15 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		28 - 106	07/02/15 09:35	07/10/15 17:47	1
2-Fluorophenol	82		20 - 108	07/02/15 09:35	07/10/15 17:47	1
2,4,6-Tribromophenol	78		25 - 118	07/02/15 09:35	07/10/15 17:47	1
Nitrobenzene-d5	90		27 - 110	07/02/15 09:35	07/10/15 17:47	1
Phenol-d5	82		23 - 111	07/02/15 09:35	07/10/15 17:47	1
Terphenyl-d14	45		20 - 109	07/02/15 09:35	07/10/15 17:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-021

Date Collected: 06/25/15 12:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/10/15 18:15	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/10/15 18:15	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/10/15 18:15	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/10/15 18:15	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/10/15 18:15	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/10/15 18:15	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 18:15	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/10/15 18:15	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/10/15 18:15	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/10/15 18:15	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/10/15 18:15	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/10/15 18:15	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/10/15 18:15	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/10/15 18:15	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/10/15 18:15	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/10/15 18:15	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/10/15 18:15	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 18:15	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/10/15 18:15	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/10/15 18:15	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/10/15 18:15	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/10/15 18:15	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/10/15 18:15	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 18:15	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/10/15 18:15	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/10/15 18:15	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/10/15 18:15	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/10/15 18:15	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-021

Date Collected: 06/25/15 12:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/10/15 18:15	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/10/15 18:15	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/10/15 18:15	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/10/15 18:15	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 18:15	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/10/15 18:15	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/10/15 18:15	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/10/15 18:15	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/10/15 18:15	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/10/15 18:15	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/10/15 18:15	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/10/15 18:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.9	T J	ug/L		12.04		07/02/15 09:35	07/10/15 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		28 - 106	07/02/15 09:35	07/10/15 18:15	1
2-Fluorophenol	82		20 - 108	07/02/15 09:35	07/10/15 18:15	1
2,4,6-Tribromophenol	73		25 - 118	07/02/15 09:35	07/10/15 18:15	1
Nitrobenzene-d5	92		27 - 110	07/02/15 09:35	07/10/15 18:15	1
Phenol-d5	81		23 - 111	07/02/15 09:35	07/10/15 18:15	1
Terphenyl-d14	43		20 - 109	07/02/15 09:35	07/10/15 18:15	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-022

Date Collected: 06/25/15 13:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 11:38	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 11:38	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/12/15 11:38	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/12/15 11:38	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/12/15 11:38	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/12/15 11:38	1
Bis(2-ethylhexyl) phthalate	8.3	J	19	4.1	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 11:38	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/12/15 11:38	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/12/15 11:38	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/12/15 11:38	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/12/15 11:38	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/12/15 11:38	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 11:38	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/12/15 11:38	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/12/15 11:38	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 11:38	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 11:38	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 11:38	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 11:38	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 11:38	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/12/15 11:38	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/12/15 11:38	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/12/15 11:38	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 11:38	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 11:38	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/12/15 11:38	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 11:38	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/12/15 11:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-022

Date Collected: 06/25/15 13:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/12/15 11:38	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/12/15 11:38	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 11:38	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/12/15 11:38	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 11:38	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/12/15 11:38	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/12/15 11:38	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/12/15 11:38	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/12/15 11:38	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 11:38	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 11:38	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/12/15 11:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/02/15 09:35	07/12/15 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		28 - 106	07/02/15 09:35	07/12/15 11:38	1
2-Fluorophenol	85		20 - 108	07/02/15 09:35	07/12/15 11:38	1
2,4,6-Tribromophenol	76		25 - 118	07/02/15 09:35	07/12/15 11:38	1
Nitrobenzene-d5	96		27 - 110	07/02/15 09:35	07/12/15 11:38	1
Phenol-d5	85		23 - 111	07/02/15 09:35	07/12/15 11:38	1
Terphenyl-d14	85		20 - 109	07/02/15 09:35	07/12/15 11:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		46	6.7	ug/L		07/02/15 09:35	07/12/15 12:06	25
Acenaphthylene	ND		46	5.0	ug/L		07/02/15 09:35	07/12/15 12:06	25
Anthracene	ND		46	4.4	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzo[a]anthracene	ND		46	8.5	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzo[b]fluoranthene	ND		46	11	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzo[k]fluoranthene	ND		46	7.0	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzoic acid	14000	E	1200	380	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzo[g,h,i]perylene	ND		46	6.7	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzo[a]pyrene	ND		46	6.5	ug/L		07/02/15 09:35	07/12/15 12:06	25
Benzyl alcohol	250		230	46	ug/L		07/02/15 09:35	07/12/15 12:06	25
Bis(2-chloroethoxy)methane	ND		230	31	ug/L		07/02/15 09:35	07/12/15 12:06	25
Bis(2-chloroethyl)ether	27	J	230	7.3	ug/L		07/02/15 09:35	07/12/15 12:06	25
Bis(2-ethylhexyl) phthalate	ND		460	100	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Bromophenyl phenyl ether	ND		230	27	ug/L		07/02/15 09:35	07/12/15 12:06	25
Butyl benzyl phthalate	ND		230	49	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Chloroaniline	ND		230	67	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Chloro-3-methylphenol	ND		230	40	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Chloronaphthalene	ND		46	7.1	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Chlorophenol	ND		230	52	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Chlorophenyl phenyl ether	ND		230	18	ug/L		07/02/15 09:35	07/12/15 12:06	25
Chrysene	ND		46	7.2	ug/L		07/02/15 09:35	07/12/15 12:06	25
Dibenz(a,h)anthracene	ND		46	6.2	ug/L		07/02/15 09:35	07/12/15 12:06	25
Dibenzofuran	ND		230	22	ug/L		07/02/15 09:35	07/12/15 12:06	25
Di-n-butyl phthalate	ND		230	56	ug/L		07/02/15 09:35	07/12/15 12:06	25
1,2-Dichlorobenzene	47	J	230	25	ug/L		07/02/15 09:35	07/12/15 12:06	25
1,3-Dichlorobenzene	ND		230	17	ug/L		07/02/15 09:35	07/12/15 12:06	25
3,3'-Dichlorobenzidine	ND		230	34	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4-Dichlorophenol	790		230	16	ug/L		07/02/15 09:35	07/12/15 12:06	25
Diethyl phthalate	ND		230	69	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4-Dimethylphenol	ND		230	40	ug/L		07/02/15 09:35	07/12/15 12:06	25
Dimethyl phthalate	ND		230	42	ug/L		07/02/15 09:35	07/12/15 12:06	25
4,6-Dinitro-2-methylphenol	ND		1200	360	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4-Dinitrophenol	ND		1200	580	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4-Dinitrotoluene	ND		230	49	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,6-Dinitrotoluene	ND		230	32	ug/L		07/02/15 09:35	07/12/15 12:06	25
Di-n-octyl phthalate	ND		230	47	ug/L		07/02/15 09:35	07/12/15 12:06	25
Fluoranthene	ND		46	4.9	ug/L		07/02/15 09:35	07/12/15 12:06	25
Fluorene	ND		46	5.6	ug/L		07/02/15 09:35	07/12/15 12:06	25
Hexachlorobenzene	ND		230	14	ug/L		07/02/15 09:35	07/12/15 12:06	25
Hexachlorobutadiene	ND		230	22	ug/L		07/02/15 09:35	07/12/15 12:06	25
Hexachlorocyclopentadiene	ND		230	31	ug/L		07/02/15 09:35	07/12/15 12:06	25
Hexachloroethane	ND		230	32	ug/L		07/02/15 09:35	07/12/15 12:06	25
Indeno[1,2,3-cd]pyrene	ND		46	10	ug/L		07/02/15 09:35	07/12/15 12:06	25
Isophorone	ND		230	17	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Methylnaphthalene	ND		46	4.4	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Methylphenol	44	J	230	43	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Methylphenol	93	J	230	48	ug/L		07/02/15 09:35	07/12/15 12:06	25
Naphthalene	ND		46	5.3	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Nitroaniline	ND		1200	160	ug/L		07/02/15 09:35	07/12/15 12:06	25

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		1200	190	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Nitroaniline	ND		1200	180	ug/L		07/02/15 09:35	07/12/15 12:06	25
Nitrobenzene	ND		460	34	ug/L		07/02/15 09:35	07/12/15 12:06	25
2-Nitrophenol	ND		230	26	ug/L		07/02/15 09:35	07/12/15 12:06	25
4-Nitrophenol	ND		1200	190	ug/L		07/02/15 09:35	07/12/15 12:06	25
N-Nitrosodiphenylamine	ND		230	28	ug/L		07/02/15 09:35	07/12/15 12:06	25
N-Nitrosodi-n-propylamine	ND		230	12	ug/L		07/02/15 09:35	07/12/15 12:06	25
Pentachlorophenol	ND		230	120	ug/L		07/02/15 09:35	07/12/15 12:06	25
Phenanthrene	ND		46	9.6	ug/L		07/02/15 09:35	07/12/15 12:06	25
Phenol	87	J	230	13	ug/L		07/02/15 09:35	07/12/15 12:06	25
Pyrene	ND		46	5.2	ug/L		07/02/15 09:35	07/12/15 12:06	25
1,2,4-Trichlorobenzene	ND		230	20	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4,5-Trichlorophenol	ND		230	28	ug/L		07/02/15 09:35	07/12/15 12:06	25
2,4,6-Trichlorophenol	ND		230	69	ug/L		07/02/15 09:35	07/12/15 12:06	25

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	280	T J	ug/L		3.77		07/02/15 09:35	07/12/15 12:06	25
Unknown	520	T J	ug/L		3.87		07/02/15 09:35	07/12/15 12:06	25
Benzene, 1-chloro-2-methyl-	5500	T J N	ug/L		5.80	95-49-8	07/02/15 09:35	07/12/15 12:06	25
Benzene, 1-chloro-3-methyl-	3100	T J N	ug/L		5.87	108-41-8	07/02/15 09:35	07/12/15 12:06	25
Benzene, 1-chloro-4-(chloromethyl)-	360	T J N	ug/L		7.14	104-83-6	07/02/15 09:35	07/12/15 12:06	25
Parachlorophenol	3200	T J N	ug/L		7.51	106-48-9	07/02/15 09:35	07/12/15 12:06	25
Benzoic acid, 3-chloro-	5300	T J N	ug/L		8.32	535-80-8	07/02/15 09:35	07/12/15 12:06	25
Benzoic acid, 2-chloro-	2800	T J N	ug/L		8.47	118-91-2	07/02/15 09:35	07/12/15 12:06	25
Phenol, 3,4-dichloro-	720	T J N	ug/L		8.72	95-77-2	07/02/15 09:35	07/12/15 12:06	25
Unknown	1300	T J	ug/L		19.69		07/02/15 09:35	07/12/15 12:06	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	28 - 106	07/02/15 09:35	07/12/15 12:06	25
2-Fluorophenol	0	X	20 - 108	07/02/15 09:35	07/12/15 12:06	25
2,4,6-Tribromophenol	0	X	25 - 118	07/02/15 09:35	07/12/15 12:06	25
Nitrobenzene-d5	0	X	27 - 110	07/02/15 09:35	07/12/15 12:06	25
Phenol-d5	0	X	23 - 111	07/02/15 09:35	07/12/15 12:06	25
Terphenyl-d14	0	X	20 - 109	07/02/15 09:35	07/12/15 12:06	25

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-024

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 12:33	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 12:33	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/12/15 12:33	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/12/15 12:33	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/12/15 12:33	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/12/15 12:33	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 12:33	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/12/15 12:33	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/12/15 12:33	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/12/15 12:33	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/12/15 12:33	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/12/15 12:33	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 12:33	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/12/15 12:33	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/12/15 12:33	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 12:33	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 12:33	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 12:33	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 12:33	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 12:33	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/12/15 12:33	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/12/15 12:33	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/12/15 12:33	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 12:33	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 12:33	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/12/15 12:33	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 12:33	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/12/15 12:33	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-024

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/12/15 12:33	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/12/15 12:33	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 12:33	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/12/15 12:33	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 12:33	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/12/15 12:33	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/12/15 12:33	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/12/15 12:33	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/12/15 12:33	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 12:33	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 12:33	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/12/15 12:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/02/15 09:35	07/12/15 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		28 - 106	07/02/15 09:35	07/12/15 12:33	1
2-Fluorophenol	79		20 - 108	07/02/15 09:35	07/12/15 12:33	1
2,4,6-Tribromophenol	71		25 - 118	07/02/15 09:35	07/12/15 12:33	1
Nitrobenzene-d5	91		27 - 110	07/02/15 09:35	07/12/15 12:33	1
Phenol-d5	77		23 - 111	07/02/15 09:35	07/12/15 12:33	1
Terphenyl-d14	46		20 - 109	07/02/15 09:35	07/12/15 12:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-025

Date Collected: 06/25/15 13:30

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 13:00	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 13:00	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/12/15 13:00	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/12/15 13:00	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/12/15 13:00	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/12/15 13:00	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:00	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/12/15 13:00	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/12/15 13:00	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/12/15 13:00	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/12/15 13:00	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/12/15 13:00	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 13:00	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/12/15 13:00	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/12/15 13:00	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 13:00	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 13:00	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:00	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 13:00	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 13:00	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/12/15 13:00	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/12/15 13:00	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/12/15 13:00	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:00	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:00	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/12/15 13:00	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 13:00	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/12/15 13:00	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-025

Date Collected: 06/25/15 13:30

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/12/15 13:00	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/12/15 13:00	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 13:00	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/12/15 13:00	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:00	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/12/15 13:00	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/12/15 13:00	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/12/15 13:00	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/12/15 13:00	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 13:00	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:00	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/12/15 13:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	24	T J	ug/L		18.31		07/02/15 09:35	07/12/15 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		28 - 106	07/02/15 09:35	07/12/15 13:00	1
2-Fluorophenol	62		20 - 108	07/02/15 09:35	07/12/15 13:00	1
2,4,6-Tribromophenol	57		25 - 118	07/02/15 09:35	07/12/15 13:00	1
Nitrobenzene-d5	77		27 - 110	07/02/15 09:35	07/12/15 13:00	1
Phenol-d5	64		23 - 111	07/02/15 09:35	07/12/15 13:00	1
Terphenyl-d14	69		20 - 109	07/02/15 09:35	07/12/15 13:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062515-SG-027

Date Collected: 06/25/15 15:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 13:28	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 13:28	1
Anthracene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzoic acid	ND		46	15	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/02/15 09:35	07/12/15 13:28	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/02/15 09:35	07/12/15 13:28	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/02/15 09:35	07/12/15 13:28	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/02/15 09:35	07/12/15 13:28	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:28	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/02/15 09:35	07/12/15 13:28	1
Chrysene	ND		1.9	0.29	ug/L		07/02/15 09:35	07/12/15 13:28	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/02/15 09:35	07/12/15 13:28	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/02/15 09:35	07/12/15 13:28	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/02/15 09:35	07/12/15 13:28	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 13:28	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/02/15 09:35	07/12/15 13:28	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/02/15 09:35	07/12/15 13:28	1
Diethyl phthalate	2.7	J	9.3	2.7	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/02/15 09:35	07/12/15 13:28	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 13:28	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:28	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 13:28	1
Fluoranthene	ND		1.9	0.20	ug/L		07/02/15 09:35	07/12/15 13:28	1
Fluorene	ND		1.9	0.22	ug/L		07/02/15 09:35	07/12/15 13:28	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/02/15 09:35	07/12/15 13:28	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/02/15 09:35	07/12/15 13:28	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:28	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/02/15 09:35	07/12/15 13:28	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/02/15 09:35	07/12/15 13:28	1
Isophorone	ND		9.3	0.68	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/02/15 09:35	07/12/15 13:28	1
Naphthalene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Nitroaniline	ND		46	6.2	ug/L		07/02/15 09:35	07/12/15 13:28	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062515-SG-027

Date Collected: 06/25/15 15:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Nitroaniline	ND		46	7.2	ug/L		07/02/15 09:35	07/12/15 13:28	1
Nitrobenzene	ND		19	1.4	ug/L		07/02/15 09:35	07/12/15 13:28	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/02/15 09:35	07/12/15 13:28	1
4-Nitrophenol	ND		46	7.4	ug/L		07/02/15 09:35	07/12/15 13:28	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:28	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/02/15 09:35	07/12/15 13:28	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/02/15 09:35	07/12/15 13:28	1
Phenanthrene	ND		1.9	0.38	ug/L		07/02/15 09:35	07/12/15 13:28	1
Phenol	ND		9.3	0.51	ug/L		07/02/15 09:35	07/12/15 13:28	1
Pyrene	ND		1.9	0.21	ug/L		07/02/15 09:35	07/12/15 13:28	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/02/15 09:35	07/12/15 13:28	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/02/15 09:35	07/12/15 13:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7.3	T J	ug/L		6.07		07/02/15 09:35	07/12/15 13:28	1
Unknown	5.4	T J	ug/L		8.30		07/02/15 09:35	07/12/15 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		28 - 106	07/02/15 09:35	07/12/15 13:28	1
2-Fluorophenol	87		20 - 108	07/02/15 09:35	07/12/15 13:28	1
2,4,6-Tribromophenol	65		25 - 118	07/02/15 09:35	07/12/15 13:28	1
Nitrobenzene-d5	98		27 - 110	07/02/15 09:35	07/12/15 13:28	1
Phenol-d5	86		23 - 111	07/02/15 09:35	07/12/15 13:28	1
Terphenyl-d14	92		20 - 109	07/02/15 09:35	07/12/15 13:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	27	ug/L		07/02/15 09:35	07/13/15 08:30	100
Acenaphthylene	ND		190	20	ug/L		07/02/15 09:35	07/13/15 08:30	100
Anthracene	ND		190	18	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzo[a]anthracene	ND		190	34	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzo[b]fluoranthene	ND		190	45	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzo[k]fluoranthene	ND		190	28	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzoic acid	16000		4600	1500	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzo[g,h,i]perylene	ND		190	27	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzo[a]pyrene	ND		190	26	ug/L		07/02/15 09:35	07/13/15 08:30	100
Benzyl alcohol	360	J	930	180	ug/L		07/02/15 09:35	07/13/15 08:30	100
Bis(2-chloroethoxy)methane	ND		930	120	ug/L		07/02/15 09:35	07/13/15 08:30	100
Bis(2-chloroethyl)ether	ND		930	29	ug/L		07/02/15 09:35	07/13/15 08:30	100
Bis(2-ethylhexyl) phthalate	ND		1900	410	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Bromophenyl phenyl ether	ND		930	110	ug/L		07/02/15 09:35	07/13/15 08:30	100
Butyl benzyl phthalate	ND		930	200	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Chloroaniline	ND		930	270	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Chloro-3-methylphenol	ND		930	160	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Chloronaphthalene	ND		190	28	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Chlorophenol	ND		930	210	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Chlorophenyl phenyl ether	ND		930	74	ug/L		07/02/15 09:35	07/13/15 08:30	100
Chrysene	ND		190	29	ug/L		07/02/15 09:35	07/13/15 08:30	100
Dibenz(a,h)anthracene	ND		190	25	ug/L		07/02/15 09:35	07/13/15 08:30	100
Dibenzofuran	ND		930	89	ug/L		07/02/15 09:35	07/13/15 08:30	100
Di-n-butyl phthalate	ND		930	220	ug/L		07/02/15 09:35	07/13/15 08:30	100
1,2-Dichlorobenzene	ND		930	100	ug/L		07/02/15 09:35	07/13/15 08:30	100
1,3-Dichlorobenzene	ND		930	70	ug/L		07/02/15 09:35	07/13/15 08:30	100
3,3'-Dichlorobenzidine	ND		930	140	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4-Dichlorophenol	950		930	62	ug/L		07/02/15 09:35	07/13/15 08:30	100
Diethyl phthalate	ND		930	270	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4-Dimethylphenol	ND		930	160	ug/L		07/02/15 09:35	07/13/15 08:30	100
Dimethyl phthalate	ND		930	170	ug/L		07/02/15 09:35	07/13/15 08:30	100
4,6-Dinitro-2-methylphenol	ND		4600	1400	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4-Dinitrophenol	ND		4600	2300	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4-Dinitrotoluene	ND		930	200	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,6-Dinitrotoluene	ND		930	130	ug/L		07/02/15 09:35	07/13/15 08:30	100
Di-n-octyl phthalate	ND		930	190	ug/L		07/02/15 09:35	07/13/15 08:30	100
Fluoranthene	ND		190	20	ug/L		07/02/15 09:35	07/13/15 08:30	100
Fluorene	ND		190	22	ug/L		07/02/15 09:35	07/13/15 08:30	100
Hexachlorobenzene	ND		930	56	ug/L		07/02/15 09:35	07/13/15 08:30	100
Hexachlorobutadiene	ND		930	87	ug/L		07/02/15 09:35	07/13/15 08:30	100
Hexachlorocyclopentadiene	ND		930	130	ug/L		07/02/15 09:35	07/13/15 08:30	100
Hexachloroethane	ND		930	130	ug/L		07/02/15 09:35	07/13/15 08:30	100
Indeno[1,2,3-cd]pyrene	ND		190	40	ug/L		07/02/15 09:35	07/13/15 08:30	100
Isophorone	ND		930	68	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Methylnaphthalene	ND		190	18	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Methylphenol	ND		930	170	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Methylphenol	ND		930	190	ug/L		07/02/15 09:35	07/13/15 08:30	100
Naphthalene	ND		190	21	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Nitroaniline	ND		4600	620	ug/L		07/02/15 09:35	07/13/15 08:30	100

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		4600	750	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Nitroaniline	ND		4600	720	ug/L		07/02/15 09:35	07/13/15 08:30	100
Nitrobenzene	ND		1900	140	ug/L		07/02/15 09:35	07/13/15 08:30	100
2-Nitrophenol	ND		930	100	ug/L		07/02/15 09:35	07/13/15 08:30	100
4-Nitrophenol	ND		4600	740	ug/L		07/02/15 09:35	07/13/15 08:30	100
N-Nitrosodiphenylamine	ND		930	110	ug/L		07/02/15 09:35	07/13/15 08:30	100
N-Nitrosodi-n-propylamine	ND		930	46	ug/L		07/02/15 09:35	07/13/15 08:30	100
Pentachlorophenol	ND		930	460	ug/L		07/02/15 09:35	07/13/15 08:30	100
Phenanthrene	ND		190	38	ug/L		07/02/15 09:35	07/13/15 08:30	100
Phenol	100	J	930	51	ug/L		07/02/15 09:35	07/13/15 08:30	100
Pyrene	ND		190	21	ug/L		07/02/15 09:35	07/13/15 08:30	100
1,2,4-Trichlorobenzene	80	J	930	79	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4,5-Trichlorophenol	ND		930	110	ug/L		07/02/15 09:35	07/13/15 08:30	100
2,4,6-Trichlorophenol	ND		930	280	ug/L		07/02/15 09:35	07/13/15 08:30	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	630	T J	ug/L		3.74		07/02/15 09:35	07/13/15 08:30	100
Benzene, 1-chloro-2-methyl-	8100	T J N	ug/L		5.80	95-49-8	07/02/15 09:35	07/13/15 08:30	100
Benzene, 1-chloro-3-methyl-	4200	T J N	ug/L		5.86	108-41-8	07/02/15 09:35	07/13/15 08:30	100
Benzene, 1,2-dichloro-4-methyl-	430	T J N	ug/L		7.13	95-75-0	07/02/15 09:35	07/13/15 08:30	100
Parachlorophenol	5500	T J N	ug/L		7.50	106-48-9	07/02/15 09:35	07/13/15 08:30	100
Benzenemethanol, 2-chloro-	470	T J N	ug/L		7.68	17849-38-6	07/02/15 09:35	07/13/15 08:30	100
Benzoic acid, 4-chloro-	3400	T J N	ug/L		8.27	74-11-3	07/02/15 09:35	07/13/15 08:30	100
Benzoic acid, 2-chloro-	2000	T J N	ug/L		8.45	118-91-2	07/02/15 09:35	07/13/15 08:30	100
Phenol, 3,4-dichloro-	810	T J N	ug/L		8.72	95-77-2	07/02/15 09:35	07/13/15 08:30	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D X	28 - 106	07/02/15 09:35	07/13/15 08:30	100
2-Fluorophenol	0	D X	20 - 108	07/02/15 09:35	07/13/15 08:30	100
2,4,6-Tribromophenol	0	D X	25 - 118	07/02/15 09:35	07/13/15 08:30	100
Nitrobenzene-d5	0	D X	27 - 110	07/02/15 09:35	07/13/15 08:30	100
Phenol-d5	0	D X	23 - 111	07/02/15 09:35	07/13/15 08:30	100
Terphenyl-d14	0	D X	20 - 109	07/02/15 09:35	07/13/15 08:30	100

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: RB-9954-062515-SG-026

Lab Sample ID: 180-45456-2

Date Collected: 06/25/15 14:20

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:31	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:31	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:31	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 17:31	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:31	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:31	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:31	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:31	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:31	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 17:31	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:31	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 17:31	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:31	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 17:31	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:31	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 17:31	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:31	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:31	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 17:31	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 130	06/29/15 08:50	07/07/15 17:31	1
Tetrachloro-m-xylene	78		45 - 130	06/29/15 08:50	07/07/15 17:31	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	06/29/15 08:50	07/07/15 17:31	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/29/15 08:50	07/07/15 17:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-017

Date Collected: 06/25/15 11:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:47	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:47	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:47	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 17:47	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:47	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:47	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:47	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 17:47	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 17:47	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 17:47	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 17:47	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 17:47	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:47	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 17:47	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:47	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 17:47	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 17:47	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 17:47	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 17:47	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		45 - 130	06/29/15 08:50	07/07/15 17:47	1
Tetrachloro-m-xylene	72		45 - 130	06/29/15 08:50	07/07/15 17:47	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/29/15 08:50	07/07/15 17:47	1
DCB Decachlorobiphenyl (Surr)	76		45 - 130	06/29/15 08:50	07/07/15 17:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-020

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:02	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:02	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:02	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 18:02	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:02	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:02	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:02	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:02	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:02	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 18:02	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:02	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 18:02	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:02	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 18:02	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:02	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 18:02	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:02	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:02	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 18:02	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 130	06/29/15 08:50	07/07/15 18:02	1
Tetrachloro-m-xylene	77		45 - 130	06/29/15 08:50	07/07/15 18:02	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/29/15 08:50	07/07/15 18:02	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/29/15 08:50	07/07/15 18:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-021

Date Collected: 06/25/15 12:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:18	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:18	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:18	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 18:18	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:18	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:18	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:18	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:18	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:18	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 18:18	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:18	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 18:18	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:18	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 18:18	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:18	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 18:18	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:18	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:18	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 18:18	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		45 - 130	06/29/15 08:50	07/07/15 18:18	1
Tetrachloro-m-xylene	73		45 - 130	06/29/15 08:50	07/07/15 18:18	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	06/29/15 08:50	07/07/15 18:18	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/29/15 08:50	07/07/15 18:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-022

Date Collected: 06/25/15 13:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:33	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:33	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:33	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 18:33	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:33	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:33	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:33	1
4,4'-DDD	0.045	J	0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:33	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:33	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 18:33	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:33	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 18:33	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:33	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 18:33	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:33	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 18:33	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:33	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:33	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 18:33	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 130	06/29/15 08:50	07/07/15 18:33	1
Tetrachloro-m-xylene	76		45 - 130	06/29/15 08:50	07/07/15 18:33	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	06/29/15 08:50	07/07/15 18:33	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	06/29/15 08:50	07/07/15 18:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.080	p	0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:49	1
beta-BHC	4.7		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:49	1
delta-BHC	7.4		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 18:49	1
gamma-BHC (Lindane)	3.2		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:49	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:49	1
gamma-Chlordane	1.1	p	0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:49	1
4,4'-DDD	0.40	p	0.050	0.027	ug/L		06/29/15 08:50	07/07/15 18:49	1
4,4'-DDE	0.033	J p	0.050	0.032	ug/L		06/29/15 08:50	07/07/15 18:49	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 18:49	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 18:49	1
Endosulfan I	0.066	p	0.050	0.038	ug/L		06/29/15 08:50	07/07/15 18:49	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:49	1
Endosulfan sulfate	0.035	J	0.050	0.023	ug/L		06/29/15 08:50	07/07/15 18:49	1
Endrin	1.4		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:49	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 18:49	1
Heptachlor	0.38	p	0.050	0.040	ug/L		06/29/15 08:50	07/07/15 18:49	1
Heptachlor epoxide	0.097	p	0.050	0.039	ug/L		06/29/15 08:50	07/07/15 18:49	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 18:49	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75	p	45 - 130				06/29/15 08:50	07/07/15 18:49	1
Tetrachloro-m-xylene	140	X	45 - 130				06/29/15 08:50	07/07/15 18:49	1
DCB Decachlorobiphenyl (Surr)	85		45 - 130				06/29/15 08:50	07/07/15 18:49	1
DCB Decachlorobiphenyl (Surr)	79		45 - 130				06/29/15 08:50	07/07/15 18:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-024

Date Collected: 06/25/15 12:10

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:04	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:04	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:04	1
delta-BHC	0.043	J p	0.050	0.017	ug/L		06/29/15 08:50	07/07/15 19:04	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:04	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:04	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:04	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:04	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:04	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 19:04	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:04	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 19:04	1
Endosulfan II	0.089	p	0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:04	1
Endosulfan sulfate	0.031	J p	0.050	0.023	ug/L		06/29/15 08:50	07/07/15 19:04	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:04	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 19:04	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:04	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:04	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 19:04	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 130	06/29/15 08:50	07/07/15 19:04	1
Tetrachloro-m-xylene	69		45 - 130	06/29/15 08:50	07/07/15 19:04	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	06/29/15 08:50	07/07/15 19:04	1
DCB Decachlorobiphenyl (Surr)	83		45 - 130	06/29/15 08:50	07/07/15 19:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-025

Date Collected: 06/25/15 13:30

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:20	1
alpha-BHC	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:20	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:20	1
delta-BHC	ND		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 19:20	1
gamma-BHC (Lindane)	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:20	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:20	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:20	1
4,4'-DDD	0.027	J p	0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:20	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:20	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 19:20	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:20	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 19:20	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:20	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 19:20	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:20	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 19:20	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:20	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:20	1
Methoxychlor	ND		0.10	0.037	ug/L		06/29/15 08:50	07/07/15 19:20	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		45 - 130	06/29/15 08:50	07/07/15 19:20	1
Tetrachloro-m-xylene	70		45 - 130	06/29/15 08:50	07/07/15 19:20	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	06/29/15 08:50	07/07/15 19:20	1
DCB Decachlorobiphenyl (Surr)	78		45 - 130	06/29/15 08:50	07/07/15 19:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062515-SG-027

Date Collected: 06/25/15 15:00

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:36	1
alpha-BHC	0.30		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:36	1
beta-BHC	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:36	1
delta-BHC	0.14		0.050	0.017	ug/L		06/29/15 08:50	07/07/15 19:36	1
gamma-BHC (Lindane)	0.26		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:36	1
alpha-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:36	1
gamma-Chlordane	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:36	1
4,4'-DDD	ND		0.050	0.027	ug/L		06/29/15 08:50	07/07/15 19:36	1
4,4'-DDE	ND		0.050	0.032	ug/L		06/29/15 08:50	07/07/15 19:36	1
4,4'-DDT	ND		0.050	0.030	ug/L		06/29/15 08:50	07/07/15 19:36	1
Dieldrin	ND		0.050	0.033	ug/L		06/29/15 08:50	07/07/15 19:36	1
Endosulfan I	ND		0.050	0.038	ug/L		06/29/15 08:50	07/07/15 19:36	1
Endosulfan II	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:36	1
Endosulfan sulfate	ND		0.050	0.023	ug/L		06/29/15 08:50	07/07/15 19:36	1
Endrin	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:36	1
Endrin ketone	ND		0.050	0.037	ug/L		06/29/15 08:50	07/07/15 19:36	1
Heptachlor	ND		0.050	0.040	ug/L		06/29/15 08:50	07/07/15 19:36	1
Heptachlor epoxide	ND		0.050	0.039	ug/L		06/29/15 08:50	07/07/15 19:36	1
Methoxychlor	0.039	J p	0.10	0.037	ug/L		06/29/15 08:50	07/07/15 19:36	1
Toxaphene	ND		4.0	0.74	ug/L		06/29/15 08:50	07/07/15 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		45 - 130	06/29/15 08:50	07/07/15 19:36	1
Tetrachloro-m-xylene	79		45 - 130	06/29/15 08:50	07/07/15 19:36	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	06/29/15 08:50	07/07/15 19:36	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	06/29/15 08:50	07/07/15 19:36	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8081B - Organochlorine Pesticides (GC) - DL

Client Sample ID: WG-9954-062515-SG-023

Date Collected: 06/25/15 14:20

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	20		0.25	0.13	ug/L		06/29/15 08:50	07/08/15 13:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		45 - 130				06/29/15 08:50	07/08/15 13:25	5
Tetrachloro-m-xylene	193	X	45 - 130				06/29/15 08:50	07/08/15 13:25	5
DCB Decachlorobiphenyl (Surr)	101		45 - 130				06/29/15 08:50	07/08/15 13:25	5
DCB Decachlorobiphenyl (Surr)	95		45 - 130				06/29/15 08:50	07/08/15 13:25	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: RB-9954-062515-SG-026

Lab Sample ID: 180-45456-2

Date Collected: 06/25/15 14:20

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 11:38	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	100		35 - 140	06/29/15 08:50	06/30/15 11:38	1
Tetrachloro-m-xylene (Surr)	96		35 - 140	06/29/15 08:50	06/30/15 11:38	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 11:38	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 11:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-017

Lab Sample ID: 180-45456-3

Date Collected: 06/25/15 11:00

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 11:56	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	89		35 - 140	06/29/15 08:50	06/30/15 11:56	1
Tetrachloro-m-xylene (Surr)	86		35 - 140	06/29/15 08:50	06/30/15 11:56	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	06/29/15 08:50	06/30/15 11:56	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 11:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-020

Lab Sample ID: 180-45456-4

Date Collected: 06/25/15 12:10

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 12:15	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	120		35 - 140	06/29/15 08:50	06/30/15 12:15	1
Tetrachloro-m-xylene (Surr)	114		35 - 140	06/29/15 08:50	06/30/15 12:15	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	06/29/15 08:50	06/30/15 12:15	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	06/29/15 08:50	06/30/15 12:15	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-021

Lab Sample ID: 180-45456-5

Date Collected: 06/25/15 12:35

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 12:34	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	126		35 - 140	06/29/15 08:50	06/30/15 12:34	1
Tetrachloro-m-xylene (Surr)	117		35 - 140	06/29/15 08:50	06/30/15 12:34	1
DCB Decachlorobiphenyl (Surr)	91		35 - 140	06/29/15 08:50	06/30/15 12:34	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 12:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-022

Date Collected: 06/25/15 13:35

Date Received: 06/26/15 09:00

Lab Sample ID: 180-45456-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 12:53	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	114		35 - 140	06/29/15 08:50	06/30/15 12:53	1
Tetrachloro-m-xylene (Surr)	108		35 - 140	06/29/15 08:50	06/30/15 12:53	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 12:53	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 12:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-023

Lab Sample ID: 180-45456-7

Date Collected: 06/25/15 14:20

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 13:11	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	376	X	35 - 140	06/29/15 08:50	06/30/15 13:11	1
Tetrachloro-m-xylene (Surr)	323	X	35 - 140	06/29/15 08:50	06/30/15 13:11	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 13:11	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/29/15 08:50	06/30/15 13:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-024

Lab Sample ID: 180-45456-8

Date Collected: 06/25/15 12:10

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 13:30	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	248	X	35 - 140	06/29/15 08:50	06/30/15 13:30	1
Tetrachloro-m-xylene (Surr)	74	p	35 - 140	06/29/15 08:50	06/30/15 13:30	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 13:30	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	06/29/15 08:50	06/30/15 13:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-025

Lab Sample ID: 180-45456-9

Date Collected: 06/25/15 13:30

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 13:49	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	140		35 - 140	06/29/15 08:50	06/30/15 13:49	1
Tetrachloro-m-xylene (Surr)	91	p	35 - 140	06/29/15 08:50	06/30/15 13:49	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	06/29/15 08:50	06/30/15 13:49	1
DCB Decachlorobiphenyl (Surr)	86		35 - 140	06/29/15 08:50	06/30/15 13:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062515-SG-027

Lab Sample ID: 180-45456-10

Date Collected: 06/25/15 15:00

Matrix: Water

Date Received: 06/26/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1221	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1232	ND		0.40	0.16	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1242	ND		0.40	0.074	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1248	ND		0.40	0.11	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1254	ND		0.40	0.12	ug/L		06/29/15 08:50	06/30/15 14:08	1
PCB-1260	ND		0.40	0.068	ug/L		06/29/15 08:50	06/30/15 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	93		35 - 140	06/29/15 08:50	06/30/15 14:08	1
Tetrachloro-m-xylene (Surr)	84		35 - 140	06/29/15 08:50	06/30/15 14:08	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	06/29/15 08:50	06/30/15 14:08	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	06/29/15 08:50	06/30/15 14:08	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information

GLEN SPRINGS HOLDINGS INC Report To: Susan Scrocchi
 805 97TH STREET Copy To:
 LOVE CANAL
 NIAGARA FALLS, NEW YORK 14304 Invoice To:
 Phone: 716-283-0111 PO:
 Fax: 716-283-2856 Project Name: LOVE CANAL
 ANNUAL GW
 Email: sscrocchi@craworld.com Project Number: 9954

Lab Information

Laboratory: TEST AMERICA PITTSBURGH
 Laboratory Location: 301 ALPHA DRIVE
 PITTSBURGH, PA 15238
 Laboratory Contact: JILL COLUSSY
 Requested Due Date: TAT: 10
 QA/QC Requirements:

Event Information

ID#: LC ANNUAL GW SAMPLING-05-1

SSOW Ref#:

Sampler Name: SHAWN GARDNER

Valid Matrix Code
 WG Groundwater
 WB Borehole Water
 WS Surface Water
 SO Soil
 SE Sediment

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Sample Identification

Sample Identification	Matrix Code	Date Collected	Time Collected	PestPCBs (None)	SVOC (none)	VOA (HCl)	Remarks
LCTIP-062515-SG	WG	06/25/2015	00:00	0	0	3	
RB-9954-062515-SG-026	WG	06/25/2015	14:20	4	2	3	
WG-9954-062515-SG-017	WG	06/25/2015	11:00	4	2	3	
WG-9954-062515-SG-020	WG	06/25/2015	12:10	4	2	3	
WG-9954-062515-SG-021	WG	06/25/2015	12:35	4	2	3	
WG-9954-062515-SG-022	WG	06/25/2015	13:35	4	2	3	
WG-9954-062515-SG-023	WG	06/25/2015	14:20	4	2	3	
WG-9954-062515-SG-024	WG	06/25/2015	12:10	4	2	3	
WG-9954-062515-SG-025	WG	06/25/2015	13:30	4	2	3	
WG-9954-062515-SG-027	WG	06/25/2015	15:00	4	2	3	
Total Bottles				36	18	30	Grand Total:84



SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	3	Shawn Gardner	6/25/15	10:50	Debbie Watson	6-26-15	
AIRBILL#:							

TAP 9:00

ANALYTICAL REPORT

Job Number: 180-45493-1

Job Description: 9954, Love Canal Annual

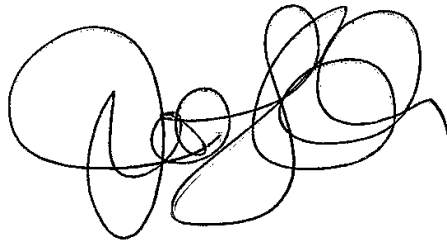
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/21/2015 3:20 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/21/2015

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: GHD Services Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45493-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/27/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 3.4° C and 3.7° C.

VOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WG-9954-062615-SG-034 (180-45493-4), WG-9954-062615-SG-029 (180-45493-5), WG-9954-062615-SG-028 (180-45493-6), WG-9954-062615-SG-030 (180-45493-7) and WG-9954-062615-SG-031 (180-45493-9) had surrogate 2,4,6-Tribromophenol recover low and outside of the control limits. These samples were re-extracted outside of the holding time. Samples WG-9954-062615-SG-028 (180-45493-6) and WG-9954-062615-SG-031 (180-45493-9) had the surrogate recover low on the re-extracts confirming matrix interference. Samples WG-9954-062615-SG-034 (180-45493-4), WG-9954-062615-SG-029 (180-45493-5), and WG-9954-062615-SG-030 (180-45493-7) had all surrogate recover within the control limits in the re-extractions. Both sets of data are reported for each sample.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

Several samples had surrogate tetrachloro-m-xylene recover outside of the control limits on one column.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Client Sample ID: WG-9954-062615-SG-035

Lab Sample ID: 180-45493-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.021	J p	0.025	0.013	ug/L	1		8081B	Total/NA
beta-BHC	0.12	p	0.025	0.020	ug/L	1		8081B	Total/NA
delta-BHC	0.10	p	0.025	0.0087	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.024	J p	0.025	0.016	ug/L	1		8081B	Total/NA
4,4'-DDE	0.017	J p	0.025	0.016	ug/L	1		8081B	Total/NA
4,4'-DDT	0.037	p	0.025	0.015	ug/L	1		8081B	Total/NA
Dieldrin	0.022	J	0.025	0.016	ug/L	1		8081B	Total/NA
Endosulfan II	0.037	p	0.025	0.020	ug/L	1		8081B	Total/NA
Endosulfan sulfate	0.047	p	0.025	0.011	ug/L	1		8081B	Total/NA
Methoxychlor	0.077	p	0.050	0.018	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-032

Lab Sample ID: 180-45493-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.9	J	5.0	1.1	ug/L	1		8260C	Total/NA
Naphthalene	0.41	J	1.9	0.21	ug/L	1		8270D	Total/NA
alpha-BHC	0.013	J p	0.025	0.013	ug/L	1		8081B	Total/NA
delta-BHC	0.031	p	0.025	0.0087	ug/L	1		8081B	Total/NA
alpha-Chlordane	0.030		0.025	0.020	ug/L	1		8081B	Total/NA
4,4'-DDE	0.023	J p	0.025	0.016	ug/L	1		8081B	Total/NA
4,4'-DDT	0.078	p	0.025	0.015	ug/L	1		8081B	Total/NA
Endosulfan I	0.026	p	0.025	0.019	ug/L	1		8081B	Total/NA
Endosulfan II	0.036	p	0.025	0.020	ug/L	1		8081B	Total/NA
Endosulfan sulfate	0.039	p	0.025	0.011	ug/L	1		8081B	Total/NA
Heptachlor epoxide	0.020	J p	0.025	0.019	ug/L	1		8081B	Total/NA
Methoxychlor	0.069	p	0.050	0.018	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-033

Lab Sample ID: 180-45493-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.73	J	5.0	0.62	ug/L	1		8260C	Total/NA
Diethyl phthalate	3.0	J	9.6	2.9	ug/L	1		8270D	Total/NA
Naphthalene	1.0	J	1.9	0.22	ug/L	1		8270D	Total/NA
beta-BHC	0.038	p	0.025	0.020	ug/L	1		8081B	Total/NA
delta-BHC	0.025	p	0.025	0.0087	ug/L	1		8081B	Total/NA
4,4'-DDT	0.045	p	0.025	0.015	ug/L	1		8081B	Total/NA
Endosulfan I	0.048	p	0.025	0.019	ug/L	1		8081B	Total/NA
Endosulfan sulfate	0.072	p	0.025	0.011	ug/L	1		8081B	Total/NA
Heptachlor epoxide	0.053		0.025	0.019	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-034

Lab Sample ID: 180-45493-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.2	J	5.0	1.1	ug/L	1		8260C	Total/NA
beta-BHC	0.049	p	0.025	0.020	ug/L	1		8081B	Total/NA
delta-BHC	0.023	J p	0.025	0.0087	ug/L	1		8081B	Total/NA
gamma-Chlordane	0.019	J p	0.025	0.019	ug/L	1		8081B	Total/NA
4,4'-DDT	0.055	p	0.025	0.015	ug/L	1		8081B	Total/NA
Endosulfan I	0.024	J p	0.025	0.019	ug/L	1		8081B	Total/NA
Endosulfan II	0.049		0.025	0.020	ug/L	1		8081B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Client Sample ID: WG-9954-062615-SG-034 (Continued)

Lab Sample ID: 180-45493-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endosulfan sulfate	0.029		0.025	0.011	ug/L	1		8081B	Total/NA
Endrin	0.027	p	0.025	0.019	ug/L	1		8081B	Total/NA
Methoxychlor	0.086	p	0.050	0.018	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-029

Lab Sample ID: 180-45493-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	J	5.0	1.1	ug/L	1		8260C	Total/NA
Hexachlorobenzene	2.1	J	9.6	0.59	ug/L	1		8270D	Total/NA
Hexachlorobenzene - RE	5.1	J H	9.3	0.56	ug/L	1		8270D	Total/NA
alpha-BHC	0.072		0.026	0.014	ug/L	1		8081B	Total/NA
beta-BHC	0.024	J p	0.026	0.021	ug/L	1		8081B	Total/NA
delta-BHC	0.027	p	0.026	0.0091	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.056		0.026	0.017	ug/L	1		8081B	Total/NA
4,4'-DDT	0.025	J p	0.026	0.015	ug/L	1		8081B	Total/NA
Methoxychlor	0.051	J	0.052	0.019	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-028

Lab Sample ID: 180-45493-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	J	5.0	1.1	ug/L	1		8260C	Total/NA
alpha-BHC	0.090		0.025	0.013	ug/L	1		8081B	Total/NA
beta-BHC	0.021	J p	0.025	0.020	ug/L	1		8081B	Total/NA
delta-BHC	0.090		0.025	0.0087	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.071		0.025	0.016	ug/L	1		8081B	Total/NA
Dieldrin	0.061		0.025	0.016	ug/L	1		8081B	Total/NA
Heptachlor epoxide	0.028		0.025	0.019	ug/L	1		8081B	Total/NA
Methoxychlor	0.024	J	0.050	0.018	ug/L	1		8081B	Total/NA

Client Sample ID: WG-9954-062615-SG-030

Lab Sample ID: 180-45493-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	J	5.0	1.1	ug/L	1		8260C	Total/NA
alpha-BHC	0.035		0.026	0.014	ug/L	1		8081B	Total/NA
beta-BHC	0.077	p	0.026	0.021	ug/L	1		8081B	Total/NA
delta-BHC	0.032	p	0.026	0.0091	ug/L	1		8081B	Total/NA
4,4'-DDT	0.057		0.026	0.015	ug/L	1		8081B	Total/NA
Dieldrin	0.032	p	0.026	0.017	ug/L	1		8081B	Total/NA
Endosulfan I	0.029	p	0.026	0.020	ug/L	1		8081B	Total/NA
Endosulfan II	0.023	J p	0.026	0.020	ug/L	1		8081B	Total/NA
Endosulfan sulfate	0.077		0.026	0.012	ug/L	1		8081B	Total/NA
Methoxychlor	0.074		0.052	0.019	ug/L	1		8081B	Total/NA

Client Sample ID: LCTRIP-062615-SG

Lab Sample ID: 180-45493-8

No Detections.

Client Sample ID: WG-9954-062615-SG-031

Lab Sample ID: 180-45493-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	J	5.0	1.1	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Client Sample ID: WG-9954-062615-SG-031 (Continued)

Lab Sample ID: 180-45493-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
alpha-BHC	0.037		0.026	0.014	ug/L	1			8081B	Total/NA
delta-BHC	0.016	J p	0.026	0.0091	ug/L	1			8081B	Total/NA
gamma-BHC (Lindane)	0.041		0.026	0.017	ug/L	1			8081B	Total/NA
4,4'-DDT	0.029	p	0.026	0.015	ug/L	1			8081B	Total/NA
Dieldrin	0.019	J	0.026	0.017	ug/L	1			8081B	Total/NA
Endosulfan sulfate	0.039		0.026	0.012	ug/L	1			8081B	Total/NA
Methoxychlor	0.11		0.052	0.019	ug/L	1			8081B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-035

Lab Sample ID: 180-45493-1

Date Collected: 06/26/15 14:10

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 16:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 16:34	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 16:34	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 16:34	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 16:34	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 16:34	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 16:34	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 16:34	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 16:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 16:34	1
Acetone	ND		20	5.0	ug/L			07/08/15 16:34	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 16:34	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 16:34	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 16:34	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 16:34	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 16:34	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 16:34	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 16:34	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 16:34	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 16:34	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 16:34	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 16:34	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 16:34	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 16:34	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 16:34	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 16:34	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 16:34	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 16:34	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 16:34	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 16:34	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 16:34	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 16:34	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 16:34	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 16:34	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 16:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	120	T J N	ug/L		1.30	7446-09-5		07/08/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 123		07/08/15 16:34	1
4-Bromofluorobenzene (Surr)	91		75 - 120		07/08/15 16:34	1
Dibromofluoromethane (Surr)	100		80 - 120		07/08/15 16:34	1
Toluene-d8 (Surr)	109		80 - 120		07/08/15 16:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-032

Date Collected: 06/26/15 13:15

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 00:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 00:11	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 00:11	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 00:11	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 00:11	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 00:11	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 00:11	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 00:11	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 00:11	1
Acetone	ND		20	5.0	ug/L			07/08/15 00:11	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 00:11	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 00:11	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 00:11	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 00:11	1
Carbon disulfide	2.9	J	5.0	1.1	ug/L			07/08/15 00:11	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 00:11	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 00:11	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 00:11	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 00:11	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 00:11	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 00:11	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 00:11	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 00:11	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 00:11	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 00:11	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 00:11	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 00:11	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 00:11	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 00:11	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 00:11	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 00:11	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 00:11	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 00:11	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 00:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	74	T J	ug/L		1.33			07/08/15 00:11	1
Methanethiol	130	T J N	ug/L		1.61	74-93-1		07/08/15 00:11	1
Dimethyl sulfide	370	T J N	ug/L		2.54	75-18-3		07/08/15 00:11	1
Ethane, (methylthio)-	36	T J N	ug/L		4.67	624-89-5		07/08/15 00:11	1
Disulfide, dimethyl	7.1	T J N	ug/L		7.75	624-92-0		07/08/15 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 123		07/08/15 00:11	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/08/15 00:11	1
Dibromofluoromethane (Surr)	97		80 - 120		07/08/15 00:11	1
Toluene-d8 (Surr)	109		80 - 120		07/08/15 00:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-033

Date Collected: 06/26/15 14:00

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 16:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 16:59	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 16:59	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 16:59	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 16:59	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 16:59	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 16:59	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 16:59	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 16:59	1
Acetone	ND		20	5.0	ug/L			07/08/15 16:59	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 16:59	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 16:59	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 16:59	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 16:59	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 16:59	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 16:59	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 16:59	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 16:59	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 16:59	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 16:59	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 16:59	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 16:59	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 16:59	1
Ethylbenzene	0.73	J	5.0	0.62	ug/L			07/08/15 16:59	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 16:59	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 16:59	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 16:59	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 16:59	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 16:59	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 16:59	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 16:59	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 16:59	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 16:59	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 16:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Butane	10	T J N	ug/L		1.43	106-97-8		07/08/15 16:59	1
Methanethiol	180	T J N	ug/L		1.63	74-93-1		07/08/15 16:59	1
Dimethyl sulfide	420	T J N	ug/L		2.54	75-18-3		07/08/15 16:59	1
Ethane, (methylthio)-	46	T J N	ug/L		4.67	624-89-5		07/08/15 16:59	1
Propane, 2-(methylthio)-	6.2	T J N	ug/L		6.12	1551-21-9		07/08/15 16:59	1
Disulfide, dimethyl	26	T J N	ug/L		7.76	624-92-0		07/08/15 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 123		07/08/15 16:59	1
4-Bromofluorobenzene (Surr)	94		75 - 120		07/08/15 16:59	1
Dibromofluoromethane (Surr)	108		80 - 120		07/08/15 16:59	1
Toluene-d8 (Surr)	107		80 - 120		07/08/15 16:59	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 17:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 17:23	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 17:23	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 17:23	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 17:23	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 17:23	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 17:23	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 17:23	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 17:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 17:23	1
Acetone	ND		20	5.0	ug/L			07/08/15 17:23	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 17:23	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 17:23	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 17:23	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 17:23	1
Carbon disulfide	2.2	J	5.0	1.1	ug/L			07/08/15 17:23	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 17:23	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 17:23	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 17:23	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 17:23	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 17:23	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 17:23	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 17:23	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 17:23	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 17:23	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 17:23	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 17:23	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 17:23	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 17:23	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 17:23	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 17:23	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 17:23	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 17:23	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 17:23	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 17:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Methanethiol	18	T J N	ug/L		1.61	74-93-1		07/08/15 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		62 - 123		07/08/15 17:23	1
4-Bromofluorobenzene (Surr)	97		75 - 120		07/08/15 17:23	1
Dibromofluoromethane (Surr)	112		80 - 120		07/08/15 17:23	1
Toluene-d8 (Surr)	116		80 - 120		07/08/15 17:23	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 17:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 17:48	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 17:48	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 17:48	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 17:48	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 17:48	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 17:48	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 17:48	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 17:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 17:48	1
Acetone	ND		20	5.0	ug/L			07/08/15 17:48	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 17:48	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 17:48	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 17:48	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 17:48	1
Carbon disulfide	1.2	J	5.0	1.1	ug/L			07/08/15 17:48	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 17:48	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 17:48	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 17:48	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 17:48	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 17:48	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 17:48	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 17:48	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 17:48	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 17:48	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 17:48	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 17:48	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 17:48	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 17:48	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 17:48	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 17:48	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 17:48	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 17:48	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 17:48	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 17:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		62 - 123		07/08/15 17:48	1
4-Bromofluorobenzene (Surr)	92		75 - 120		07/08/15 17:48	1
Dibromofluoromethane (Surr)	102		80 - 120		07/08/15 17:48	1
Toluene-d8 (Surr)	108		80 - 120		07/08/15 17:48	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 18:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 18:13	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 18:13	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 18:13	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 18:13	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 18:13	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 18:13	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 18:13	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 18:13	1
Acetone	ND		20	5.0	ug/L			07/08/15 18:13	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 18:13	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 18:13	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 18:13	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 18:13	1
Carbon disulfide	1.2	J	5.0	1.1	ug/L			07/08/15 18:13	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 18:13	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 18:13	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 18:13	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 18:13	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 18:13	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 18:13	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 18:13	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 18:13	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 18:13	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 18:13	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 18:13	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 18:13	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 18:13	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 18:13	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 18:13	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 18:13	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 18:13	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 18:13	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 18:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		62 - 123		07/08/15 18:13	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/08/15 18:13	1
Dibromofluoromethane (Surr)	99		80 - 120		07/08/15 18:13	1
Toluene-d8 (Surr)	99		80 - 120		07/08/15 18:13	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 18:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 18:37	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 18:37	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 18:37	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 18:37	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 18:37	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 18:37	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 18:37	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 18:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 18:37	1
Acetone	ND		20	5.0	ug/L			07/08/15 18:37	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 18:37	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 18:37	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 18:37	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 18:37	1
Carbon disulfide	1.2	J	5.0	1.1	ug/L			07/08/15 18:37	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 18:37	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 18:37	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 18:37	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 18:37	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 18:37	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 18:37	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 18:37	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 18:37	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 18:37	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 18:37	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 18:37	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 18:37	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 18:37	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 18:37	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 18:37	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 18:37	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 18:37	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 18:37	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 18:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 123		07/08/15 18:37	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/08/15 18:37	1
Dibromofluoromethane (Surr)	105		80 - 120		07/08/15 18:37	1
Toluene-d8 (Surr)	103		80 - 120		07/08/15 18:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTrip-062615-SG

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/07/15 23:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/07/15 23:22	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/07/15 23:22	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/07/15 23:22	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/07/15 23:22	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/07/15 23:22	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/07/15 23:22	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/07/15 23:22	1
2-Hexanone	ND		5.0	0.57	ug/L			07/07/15 23:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/07/15 23:22	1
Acetone	ND		20	5.0	ug/L			07/07/15 23:22	1
Benzene	ND		5.0	0.99	ug/L			07/07/15 23:22	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/07/15 23:22	1
Bromoform	ND		5.0	1.1	ug/L			07/07/15 23:22	1
Bromomethane	ND		5.0	1.6	ug/L			07/07/15 23:22	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/07/15 23:22	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/07/15 23:22	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/07/15 23:22	1
Chloroethane	ND		5.0	0.75	ug/L			07/07/15 23:22	1
Chloroform	ND		5.0	1.0	ug/L			07/07/15 23:22	1
Chloromethane	ND		5.0	1.4	ug/L			07/07/15 23:22	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/07/15 23:22	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/07/15 23:22	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/07/15 23:22	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/07/15 23:22	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/07/15 23:22	1
Styrene	ND		5.0	0.64	ug/L			07/07/15 23:22	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/07/15 23:22	1
Toluene	ND		5.0	0.85	ug/L			07/07/15 23:22	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/07/15 23:22	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/07/15 23:22	1
Trichloroethene	ND		5.0	0.80	ug/L			07/07/15 23:22	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/07/15 23:22	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/07/15 23:22	1
Xylenes, Total	ND		10	1.7	ug/L			07/07/15 23:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/07/15 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		07/07/15 23:22	1
4-Bromofluorobenzene (Surr)	83		75 - 120		07/07/15 23:22	1
Dibromofluoromethane (Surr)	92		80 - 120		07/07/15 23:22	1
Toluene-d8 (Surr)	105		80 - 120		07/07/15 23:22	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 19:02	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 19:02	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:02	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 19:02	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 19:02	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 19:02	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 19:02	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 19:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 19:02	1
Acetone	ND		20	5.0	ug/L			07/08/15 19:02	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 19:02	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 19:02	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 19:02	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 19:02	1
Carbon disulfide	1.4	J	5.0	1.1	ug/L			07/08/15 19:02	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 19:02	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 19:02	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 19:02	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 19:02	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 19:02	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 19:02	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 19:02	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 19:02	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 19:02	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 19:02	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 19:02	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 19:02	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 19:02	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 19:02	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 19:02	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 19:02	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 19:02	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 19:02	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 19:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	14	T J N	ug/L		1.27	7446-09-5		07/08/15 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		62 - 123		07/08/15 19:02	1
4-Bromofluorobenzene (Surr)	84		75 - 120		07/08/15 19:02	1
Dibromofluoromethane (Surr)	97		80 - 120		07/08/15 19:02	1
Toluene-d8 (Surr)	100		80 - 120		07/08/15 19:02	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-035

Lab Sample ID: 180-45493-1

Date Collected: 06/26/15 14:10

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 13:35	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 13:35	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 13:35	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:26	07/13/15 13:35	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:26	07/13/15 13:35	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:26	07/13/15 13:35	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 13:35	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:26	07/13/15 13:35	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 13:35	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:26	07/13/15 13:35	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:26	07/13/15 13:35	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:26	07/13/15 13:35	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 13:35	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:26	07/13/15 13:35	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:26	07/13/15 13:35	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 13:35	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 13:35	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 13:35	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 13:35	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 13:35	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 13:35	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:26	07/13/15 13:35	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:26	07/13/15 13:35	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 13:35	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 13:35	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 13:35	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 13:35	1
Naphthalene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:26	07/13/15 13:35	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-035

Date Collected: 06/26/15 14:10

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:26	07/13/15 13:35	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 13:35	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 13:35	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:26	07/13/15 13:35	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 13:35	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:26	07/13/15 13:35	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:26	07/13/15 13:35	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:26	07/13/15 13:35	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:26	07/13/15 13:35	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 13:35	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 13:35	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:26	07/13/15 13:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.1	T J	ug/L		10.68		07/03/15 09:26	07/13/15 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		28 - 106	07/03/15 09:26	07/13/15 13:35	1
2-Fluorophenol	55		20 - 108	07/03/15 09:26	07/13/15 13:35	1
2,4,6-Tribromophenol	54		25 - 118	07/03/15 09:26	07/13/15 13:35	1
Nitrobenzene-d5	67		27 - 110	07/03/15 09:26	07/13/15 13:35	1
Phenol-d5	54		23 - 111	07/03/15 09:26	07/13/15 13:35	1
Terphenyl-d14	77		20 - 109	07/03/15 09:26	07/13/15 13:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-032

Date Collected: 06/26/15 13:15

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 14:03	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 14:03	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 14:03	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:26	07/13/15 14:03	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:26	07/13/15 14:03	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:26	07/13/15 14:03	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:03	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:26	07/13/15 14:03	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 14:03	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:26	07/13/15 14:03	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:26	07/13/15 14:03	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:26	07/13/15 14:03	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 14:03	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:26	07/13/15 14:03	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:26	07/13/15 14:03	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 14:03	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 14:03	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:03	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 14:03	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 14:03	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 14:03	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:26	07/13/15 14:03	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:26	07/13/15 14:03	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:03	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:03	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 14:03	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 14:03	1
Naphthalene	0.41	J	1.9	0.21	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:26	07/13/15 14:03	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-032

Date Collected: 06/26/15 13:15

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:26	07/13/15 14:03	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 14:03	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 14:03	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:26	07/13/15 14:03	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:03	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:26	07/13/15 14:03	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:26	07/13/15 14:03	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:26	07/13/15 14:03	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:26	07/13/15 14:03	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 14:03	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:03	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:26	07/13/15 14:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	32	T J	ug/L		7.77		07/03/15 09:26	07/13/15 14:03	1
Unknown	10	T J	ug/L		9.14		07/03/15 09:26	07/13/15 14:03	1
Unknown	31	T J	ug/L		10.68		07/03/15 09:26	07/13/15 14:03	1
Unknown	29	T J	ug/L		10.89		07/03/15 09:26	07/13/15 14:03	1
Unknown	7.7	T J	ug/L		11.03		07/03/15 09:26	07/13/15 14:03	1
Unknown	220	T J	ug/L		11.57		07/03/15 09:26	07/13/15 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		28 - 106	07/03/15 09:26	07/13/15 14:03	1
2-Fluorophenol	66		20 - 108	07/03/15 09:26	07/13/15 14:03	1
2,4,6-Tribromophenol	55		25 - 118	07/03/15 09:26	07/13/15 14:03	1
Nitrobenzene-d5	78		27 - 110	07/03/15 09:26	07/13/15 14:03	1
Phenol-d5	68		23 - 111	07/03/15 09:26	07/13/15 14:03	1
Terphenyl-d14	83		20 - 109	07/03/15 09:26	07/13/15 14:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-033

Date Collected: 06/26/15 14:00

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:31	1
Acenaphthylene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 14:31	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzoic acid	ND		48	16	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 14:31	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/03/15 09:26	07/13/15 14:31	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 14:31	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		07/03/15 09:26	07/13/15 14:31	1
Bis(2-ethylhexyl) phthalate	ND		19	4.2	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		07/03/15 09:26	07/13/15 14:31	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Chloroaniline	ND		9.6	2.8	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Chlorophenol	ND		9.6	2.2	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		07/03/15 09:26	07/13/15 14:31	1
Chrysene	ND		1.9	0.30	ug/L		07/03/15 09:26	07/13/15 14:31	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 14:31	1
Dibenzofuran	ND		9.6	0.93	ug/L		07/03/15 09:26	07/13/15 14:31	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		07/03/15 09:26	07/13/15 14:31	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		07/03/15 09:26	07/13/15 14:31	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		07/03/15 09:26	07/13/15 14:31	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		07/03/15 09:26	07/13/15 14:31	1
Diethyl phthalate	3.0	J	9.6	2.9	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		07/03/15 09:26	07/13/15 14:31	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		07/03/15 09:26	07/13/15 14:31	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4-Dinitrophenol	ND		48	24	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 14:31	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		07/03/15 09:26	07/13/15 14:31	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 14:31	1
Fluorene	ND		1.9	0.23	ug/L		07/03/15 09:26	07/13/15 14:31	1
Hexachlorobenzene	ND		9.6	0.59	ug/L		07/03/15 09:26	07/13/15 14:31	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		07/03/15 09:26	07/13/15 14:31	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 14:31	1
Hexachloroethane	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 14:31	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		07/03/15 09:26	07/13/15 14:31	1
Isophorone	ND		9.6	0.71	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Methylphenol	ND		9.6	1.8	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Methylphenol	ND		9.6	2.0	ug/L		07/03/15 09:26	07/13/15 14:31	1
Naphthalene	1.0	J	1.9	0.22	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Nitroaniline	ND		48	6.5	ug/L		07/03/15 09:26	07/13/15 14:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-033

Date Collected: 06/26/15 14:00

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Nitroaniline	ND		48	7.4	ug/L		07/03/15 09:26	07/13/15 14:31	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 14:31	1
2-Nitrophenol	ND		9.6	1.1	ug/L		07/03/15 09:26	07/13/15 14:31	1
4-Nitrophenol	ND		48	7.7	ug/L		07/03/15 09:26	07/13/15 14:31	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		07/03/15 09:26	07/13/15 14:31	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		07/03/15 09:26	07/13/15 14:31	1
Pentachlorophenol	ND		9.6	4.8	ug/L		07/03/15 09:26	07/13/15 14:31	1
Phenanthrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 14:31	1
Phenol	ND		9.6	0.53	ug/L		07/03/15 09:26	07/13/15 14:31	1
Pyrene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 14:31	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		07/03/15 09:26	07/13/15 14:31	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		07/03/15 09:26	07/13/15 14:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	44	T J	ug/L		2.51		07/03/15 09:26	07/13/15 14:31	1
Unknown	46	T J	ug/L		7.77		07/03/15 09:26	07/13/15 14:31	1
Unknown	14	T J	ug/L		9.14		07/03/15 09:26	07/13/15 14:31	1
Unknown	5.5	T J	ug/L		10.84		07/03/15 09:26	07/13/15 14:31	1
Unknown	44	T J	ug/L		11.54		07/03/15 09:26	07/13/15 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		28 - 106	07/03/15 09:26	07/13/15 14:31	1
2-Fluorophenol	70		20 - 108	07/03/15 09:26	07/13/15 14:31	1
2,4,6-Tribromophenol	31		25 - 118	07/03/15 09:26	07/13/15 14:31	1
Nitrobenzene-d5	83		27 - 110	07/03/15 09:26	07/13/15 14:31	1
Phenol-d5	67		23 - 111	07/03/15 09:26	07/13/15 14:31	1
Terphenyl-d14	77		20 - 109	07/03/15 09:26	07/13/15 14:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 14:59	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 14:59	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 14:59	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:26	07/13/15 14:59	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:26	07/13/15 14:59	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:26	07/13/15 14:59	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:59	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:26	07/13/15 14:59	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 14:59	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:26	07/13/15 14:59	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:26	07/13/15 14:59	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:26	07/13/15 14:59	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 14:59	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:26	07/13/15 14:59	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:26	07/13/15 14:59	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 14:59	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 14:59	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:59	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 14:59	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 14:59	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 14:59	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:26	07/13/15 14:59	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:26	07/13/15 14:59	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:59	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 14:59	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 14:59	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 14:59	1
Naphthalene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:26	07/13/15 14:59	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:26	07/13/15 14:59	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 14:59	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 14:59	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:26	07/13/15 14:59	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:59	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:26	07/13/15 14:59	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:26	07/13/15 14:59	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:26	07/13/15 14:59	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:26	07/13/15 14:59	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 14:59	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 14:59	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:26	07/13/15 14:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		9.92		07/03/15 09:26	07/13/15 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		28 - 106	07/03/15 09:26	07/13/15 14:59	1
2-Fluorophenol	73		20 - 108	07/03/15 09:26	07/13/15 14:59	1
2,4,6-Tribromophenol	17	X	25 - 118	07/03/15 09:26	07/13/15 14:59	1
Nitrobenzene-d5	87		27 - 110	07/03/15 09:26	07/13/15 14:59	1
Phenol-d5	78		23 - 111	07/03/15 09:26	07/13/15 14:59	1
Terphenyl-d14	81		20 - 109	07/03/15 09:26	07/13/15 14:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 15:27	1
Acenaphthylene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 15:27	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzoic acid	ND		48	16	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 15:27	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/03/15 09:26	07/13/15 15:27	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 15:27	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		07/03/15 09:26	07/13/15 15:27	1
Bis(2-ethylhexyl) phthalate	ND		19	4.2	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		07/03/15 09:26	07/13/15 15:27	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Chloroaniline	ND		9.6	2.8	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Chlorophenol	ND		9.6	2.2	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		07/03/15 09:26	07/13/15 15:27	1
Chrysene	ND		1.9	0.30	ug/L		07/03/15 09:26	07/13/15 15:27	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 15:27	1
Dibenzofuran	ND		9.6	0.93	ug/L		07/03/15 09:26	07/13/15 15:27	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		07/03/15 09:26	07/13/15 15:27	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		07/03/15 09:26	07/13/15 15:27	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		07/03/15 09:26	07/13/15 15:27	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		07/03/15 09:26	07/13/15 15:27	1
Diethyl phthalate	ND		9.6	2.9	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		07/03/15 09:26	07/13/15 15:27	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		07/03/15 09:26	07/13/15 15:27	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4-Dinitrophenol	ND		48	24	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 15:27	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		07/03/15 09:26	07/13/15 15:27	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 15:27	1
Fluorene	ND		1.9	0.23	ug/L		07/03/15 09:26	07/13/15 15:27	1
Hexachlorobenzene	2.1	J	9.6	0.59	ug/L		07/03/15 09:26	07/13/15 15:27	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		07/03/15 09:26	07/13/15 15:27	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 15:27	1
Hexachloroethane	ND		9.6	1.3	ug/L		07/03/15 09:26	07/13/15 15:27	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		07/03/15 09:26	07/13/15 15:27	1
Isophorone	ND		9.6	0.71	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Methylphenol	ND		9.6	1.8	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Methylphenol	ND		9.6	2.0	ug/L		07/03/15 09:26	07/13/15 15:27	1
Naphthalene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Nitroaniline	ND		48	6.5	ug/L		07/03/15 09:26	07/13/15 15:27	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Nitroaniline	ND		48	7.4	ug/L		07/03/15 09:26	07/13/15 15:27	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 15:27	1
2-Nitrophenol	ND		9.6	1.1	ug/L		07/03/15 09:26	07/13/15 15:27	1
4-Nitrophenol	ND		48	7.7	ug/L		07/03/15 09:26	07/13/15 15:27	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		07/03/15 09:26	07/13/15 15:27	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		07/03/15 09:26	07/13/15 15:27	1
Pentachlorophenol	ND		9.6	4.8	ug/L		07/03/15 09:26	07/13/15 15:27	1
Phenanthrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 15:27	1
Phenol	ND		9.6	0.53	ug/L		07/03/15 09:26	07/13/15 15:27	1
Pyrene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 15:27	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		07/03/15 09:26	07/13/15 15:27	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		07/03/15 09:26	07/13/15 15:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/03/15 09:26	07/13/15 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		28 - 106	07/03/15 09:26	07/13/15 15:27	1
2-Fluorophenol	81		20 - 108	07/03/15 09:26	07/13/15 15:27	1
2,4,6-Tribromophenol	12	X	25 - 118	07/03/15 09:26	07/13/15 15:27	1
Nitrobenzene-d5	96		27 - 110	07/03/15 09:26	07/13/15 15:27	1
Phenol-d5	86		23 - 111	07/03/15 09:26	07/13/15 15:27	1
Terphenyl-d14	99		20 - 109	07/03/15 09:26	07/13/15 15:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 15:55	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 15:55	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:26	07/13/15 15:55	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:26	07/13/15 15:55	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:26	07/13/15 15:55	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:26	07/13/15 15:55	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 15:55	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:26	07/13/15 15:55	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:26	07/13/15 15:55	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:26	07/13/15 15:55	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:26	07/13/15 15:55	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:26	07/13/15 15:55	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 15:55	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:26	07/13/15 15:55	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:26	07/13/15 15:55	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:26	07/13/15 15:55	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 15:55	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 15:55	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 15:55	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:26	07/13/15 15:55	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:26	07/13/15 15:55	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:26	07/13/15 15:55	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:26	07/13/15 15:55	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 15:55	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:26	07/13/15 15:55	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:26	07/13/15 15:55	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:26	07/13/15 15:55	1
Naphthalene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:26	07/13/15 15:55	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:26	07/13/15 15:55	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:26	07/13/15 15:55	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:26	07/13/15 15:55	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:26	07/13/15 15:55	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 15:55	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:26	07/13/15 15:55	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:26	07/13/15 15:55	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:26	07/13/15 15:55	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:26	07/13/15 15:55	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:26	07/13/15 15:55	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:26	07/13/15 15:55	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:26	07/13/15 15:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/03/15 09:26	07/13/15 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		28 - 106	07/03/15 09:26	07/13/15 15:55	1
2-Fluorophenol	75		20 - 108	07/03/15 09:26	07/13/15 15:55	1
2,4,6-Tribromophenol	10	X	25 - 118	07/03/15 09:26	07/13/15 15:55	1
Nitrobenzene-d5	87		27 - 110	07/03/15 09:26	07/13/15 15:55	1
Phenol-d5	77		23 - 111	07/03/15 09:26	07/13/15 15:55	1
Terphenyl-d14	60		20 - 109	07/03/15 09:26	07/13/15 15:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:27	07/13/15 16:23	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:27	07/13/15 16:23	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:27	07/13/15 16:23	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:27	07/13/15 16:23	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:27	07/13/15 16:23	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:27	07/13/15 16:23	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:23	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:27	07/13/15 16:23	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:27	07/13/15 16:23	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:27	07/13/15 16:23	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:27	07/13/15 16:23	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:27	07/13/15 16:23	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:27	07/13/15 16:23	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:27	07/13/15 16:23	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:27	07/13/15 16:23	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:27	07/13/15 16:23	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:27	07/13/15 16:23	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:23	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:27	07/13/15 16:23	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:27	07/13/15 16:23	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:27	07/13/15 16:23	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:27	07/13/15 16:23	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:27	07/13/15 16:23	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:23	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:23	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:27	07/13/15 16:23	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:27	07/13/15 16:23	1
Naphthalene	ND		1.9	0.21	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:27	07/13/15 16:23	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:27	07/13/15 16:23	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:27	07/13/15 16:23	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:27	07/13/15 16:23	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:27	07/13/15 16:23	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:23	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:27	07/13/15 16:23	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:27	07/13/15 16:23	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:27	07/13/15 16:23	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:27	07/13/15 16:23	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:27	07/13/15 16:23	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:23	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:27	07/13/15 16:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/03/15 09:27	07/13/15 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		28 - 106	07/03/15 09:27	07/13/15 16:23	1
2-Fluorophenol	76		20 - 108	07/03/15 09:27	07/13/15 16:23	1
2,4,6-Tribromophenol	8 X		25 - 118	07/03/15 09:27	07/13/15 16:23	1
Nitrobenzene-d5	89		27 - 110	07/03/15 09:27	07/13/15 16:23	1
Phenol-d5	80		23 - 111	07/03/15 09:27	07/13/15 16:23	1
Terphenyl-d14	84		20 - 109	07/03/15 09:27	07/13/15 16:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/03/15 09:27	07/13/15 16:51	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/03/15 09:27	07/13/15 16:51	1
Anthracene	ND		1.9	0.18	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzoic acid	ND		46	15	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/03/15 09:27	07/13/15 16:51	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/03/15 09:27	07/13/15 16:51	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/03/15 09:27	07/13/15 16:51	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/03/15 09:27	07/13/15 16:51	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:51	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/03/15 09:27	07/13/15 16:51	1
Chrysene	ND		1.9	0.29	ug/L		07/03/15 09:27	07/13/15 16:51	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/03/15 09:27	07/13/15 16:51	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/03/15 09:27	07/13/15 16:51	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/03/15 09:27	07/13/15 16:51	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/03/15 09:27	07/13/15 16:51	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/03/15 09:27	07/13/15 16:51	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/03/15 09:27	07/13/15 16:51	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/03/15 09:27	07/13/15 16:51	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/03/15 09:27	07/13/15 16:51	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:51	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/03/15 09:27	07/13/15 16:51	1
Fluoranthene	ND		1.9	0.20	ug/L		07/03/15 09:27	07/13/15 16:51	1
Fluorene	ND		1.9	0.22	ug/L		07/03/15 09:27	07/13/15 16:51	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/03/15 09:27	07/13/15 16:51	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/03/15 09:27	07/13/15 16:51	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:51	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/03/15 09:27	07/13/15 16:51	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/03/15 09:27	07/13/15 16:51	1
Isophorone	ND		9.3	0.68	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/03/15 09:27	07/13/15 16:51	1
Naphthalene	ND		1.9	0.21	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Nitroaniline	ND		46	6.2	ug/L		07/03/15 09:27	07/13/15 16:51	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Nitroaniline	ND		46	7.2	ug/L		07/03/15 09:27	07/13/15 16:51	1
Nitrobenzene	ND		19	1.4	ug/L		07/03/15 09:27	07/13/15 16:51	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/03/15 09:27	07/13/15 16:51	1
4-Nitrophenol	ND		46	7.4	ug/L		07/03/15 09:27	07/13/15 16:51	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:51	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/03/15 09:27	07/13/15 16:51	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/03/15 09:27	07/13/15 16:51	1
Phenanthrene	ND		1.9	0.38	ug/L		07/03/15 09:27	07/13/15 16:51	1
Phenol	ND		9.3	0.51	ug/L		07/03/15 09:27	07/13/15 16:51	1
Pyrene	ND		1.9	0.21	ug/L		07/03/15 09:27	07/13/15 16:51	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/03/15 09:27	07/13/15 16:51	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/03/15 09:27	07/13/15 16:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/03/15 09:27	07/13/15 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		28 - 106	07/03/15 09:27	07/13/15 16:51	1
2-Fluorophenol	72		20 - 108	07/03/15 09:27	07/13/15 16:51	1
2,4,6-Tribromophenol	7 X		25 - 118	07/03/15 09:27	07/13/15 16:51	1
Nitrobenzene-d5	85		27 - 110	07/03/15 09:27	07/13/15 16:51	1
Phenol-d5	75		23 - 111	07/03/15 09:27	07/13/15 16:51	1
Terphenyl-d14	80		20 - 109	07/03/15 09:27	07/13/15 16:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/16/15 22:57	1
Acenaphthylene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/16/15 22:57	1
Anthracene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzo[a]anthracene	ND	H	1.9	0.34	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzo[b]fluoranthene	ND	H	1.9	0.45	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzo[k]fluoranthene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzoic acid	ND	H	46	15	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzo[g,h,i]perylene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzo[a]pyrene	ND	H	1.9	0.26	ug/L		07/14/15 11:27	07/16/15 22:57	1
Benzyl alcohol	ND	H	9.3	1.8	ug/L		07/14/15 11:27	07/16/15 22:57	1
Bis(2-chloroethoxy)methane	ND	H	9.3	1.2	ug/L		07/14/15 11:27	07/16/15 22:57	1
Bis(2-chloroethyl)ether	ND	H	9.3	0.29	ug/L		07/14/15 11:27	07/16/15 22:57	1
Bis(2-ethylhexyl) phthalate	ND	H	19	4.1	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Bromophenyl phenyl ether	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/16/15 22:57	1
Butyl benzyl phthalate	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Chloroaniline	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Chloro-3-methylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Chloronaphthalene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Chlorophenol	ND	H	9.3	2.1	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Chlorophenyl phenyl ether	ND	H	9.3	0.74	ug/L		07/14/15 11:27	07/16/15 22:57	1
Chrysene	ND	H	1.9	0.29	ug/L		07/14/15 11:27	07/16/15 22:57	1
Dibenz(a,h)anthracene	ND	H	1.9	0.25	ug/L		07/14/15 11:27	07/16/15 22:57	1
Dibenzofuran	ND	H	9.3	0.89	ug/L		07/14/15 11:27	07/16/15 22:57	1
Di-n-butyl phthalate	ND	H	9.3	2.2	ug/L		07/14/15 11:27	07/16/15 22:57	1
1,2-Dichlorobenzene	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/16/15 22:57	1
1,3-Dichlorobenzene	ND	H	9.3	0.70	ug/L		07/14/15 11:27	07/16/15 22:57	1
3,3'-Dichlorobenzidine	ND	H	9.3	1.4	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4-Dichlorophenol	ND	H	9.3	0.62	ug/L		07/14/15 11:27	07/16/15 22:57	1
Diethyl phthalate	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4-Dimethylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/16/15 22:57	1
Dimethyl phthalate	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/16/15 22:57	1
4,6-Dinitro-2-methylphenol	ND	H	46	14	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4-Dinitrophenol	ND	H	46	23	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4-Dinitrotoluene	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,6-Dinitrotoluene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/16/15 22:57	1
Di-n-octyl phthalate	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/16/15 22:57	1
Fluoranthene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/16/15 22:57	1
Fluorene	ND	H	1.9	0.22	ug/L		07/14/15 11:27	07/16/15 22:57	1
Hexachlorobenzene	ND	H	9.3	0.56	ug/L		07/14/15 11:27	07/16/15 22:57	1
Hexachlorobutadiene	ND	H	9.3	0.87	ug/L		07/14/15 11:27	07/16/15 22:57	1
Hexachlorocyclopentadiene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/16/15 22:57	1
Hexachloroethane	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/16/15 22:57	1
Indeno[1,2,3-cd]pyrene	ND	H	1.9	0.40	ug/L		07/14/15 11:27	07/16/15 22:57	1
Isophorone	ND	H	9.3	0.68	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Methylnaphthalene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Methylphenol	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Methylphenol	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/16/15 22:57	1
Naphthalene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Nitroaniline	ND	H	46	6.2	ug/L		07/14/15 11:27	07/16/15 22:57	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	H	46	7.5	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Nitroaniline	ND	H	46	7.2	ug/L		07/14/15 11:27	07/16/15 22:57	1
Nitrobenzene	ND	H	19	1.4	ug/L		07/14/15 11:27	07/16/15 22:57	1
2-Nitrophenol	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/16/15 22:57	1
4-Nitrophenol	ND	H	46	7.4	ug/L		07/14/15 11:27	07/16/15 22:57	1
N-Nitrosodiphenylamine	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/16/15 22:57	1
N-Nitrosodi-n-propylamine	ND	H	9.3	0.46	ug/L		07/14/15 11:27	07/16/15 22:57	1
Pentachlorophenol	ND	H	9.3	4.6	ug/L		07/14/15 11:27	07/16/15 22:57	1
Phenanthrene	ND	H	1.9	0.38	ug/L		07/14/15 11:27	07/16/15 22:57	1
Phenol	ND	H	9.3	0.51	ug/L		07/14/15 11:27	07/16/15 22:57	1
Pyrene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/16/15 22:57	1
1,2,4-Trichlorobenzene	ND	H	9.3	0.79	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4,5-Trichlorophenol	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/16/15 22:57	1
2,4,6-Trichlorophenol	ND	H	9.3	2.8	ug/L		07/14/15 11:27	07/16/15 22:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.4	T H J	ug/L		10.99		07/14/15 11:27	07/16/15 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	43		28 - 106	07/14/15 11:27	07/16/15 22:57	1
2-Fluorophenol	38		20 - 108	07/14/15 11:27	07/16/15 22:57	1
2,4,6-Tribromophenol	41		25 - 118	07/14/15 11:27	07/16/15 22:57	1
Nitrobenzene-d5	46		27 - 110	07/14/15 11:27	07/16/15 22:57	1
Phenol-d5	37		23 - 111	07/14/15 11:27	07/16/15 22:57	1
Terphenyl-d14	31		20 - 109	07/14/15 11:27	07/16/15 22:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/17/15 11:57	1
Acenaphthylene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/17/15 11:57	1
Anthracene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzo[a]anthracene	ND	H	1.9	0.34	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzo[b]fluoranthene	ND	H	1.9	0.45	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzo[k]fluoranthene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzoic acid	ND	H	46	15	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzo[g,h,i]perylene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzo[a]pyrene	ND	H	1.9	0.26	ug/L		07/14/15 11:27	07/17/15 11:57	1
Benzyl alcohol	ND	H	9.3	1.8	ug/L		07/14/15 11:27	07/17/15 11:57	1
Bis(2-chloroethoxy)methane	ND	H	9.3	1.2	ug/L		07/14/15 11:27	07/17/15 11:57	1
Bis(2-chloroethyl)ether	ND	H	9.3	0.29	ug/L		07/14/15 11:27	07/17/15 11:57	1
Bis(2-ethylhexyl) phthalate	ND	H	19	4.1	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Bromophenyl phenyl ether	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 11:57	1
Butyl benzyl phthalate	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Chloroaniline	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Chloro-3-methylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Chloronaphthalene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Chlorophenol	ND	H	9.3	2.1	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Chlorophenyl phenyl ether	ND	H	9.3	0.74	ug/L		07/14/15 11:27	07/17/15 11:57	1
Chrysene	ND	H	1.9	0.29	ug/L		07/14/15 11:27	07/17/15 11:57	1
Dibenz(a,h)anthracene	ND	H	1.9	0.25	ug/L		07/14/15 11:27	07/17/15 11:57	1
Dibenzofuran	ND	H	9.3	0.89	ug/L		07/14/15 11:27	07/17/15 11:57	1
Di-n-butyl phthalate	ND	H	9.3	2.2	ug/L		07/14/15 11:27	07/17/15 11:57	1
1,2-Dichlorobenzene	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/17/15 11:57	1
1,3-Dichlorobenzene	ND	H	9.3	0.70	ug/L		07/14/15 11:27	07/17/15 11:57	1
3,3'-Dichlorobenzidine	ND	H	9.3	1.4	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4-Dichlorophenol	ND	H	9.3	0.62	ug/L		07/14/15 11:27	07/17/15 11:57	1
Diethyl phthalate	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4-Dimethylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/17/15 11:57	1
Dimethyl phthalate	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/17/15 11:57	1
4,6-Dinitro-2-methylphenol	ND	H	46	14	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4-Dinitrophenol	ND	H	46	23	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4-Dinitrotoluene	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,6-Dinitrotoluene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 11:57	1
Di-n-octyl phthalate	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/17/15 11:57	1
Fluoranthene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/17/15 11:57	1
Fluorene	ND	H	1.9	0.22	ug/L		07/14/15 11:27	07/17/15 11:57	1
Hexachlorobenzene	5.1	J H	9.3	0.56	ug/L		07/14/15 11:27	07/17/15 11:57	1
Hexachlorobutadiene	ND	H	9.3	0.87	ug/L		07/14/15 11:27	07/17/15 11:57	1
Hexachlorocyclopentadiene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 11:57	1
Hexachloroethane	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 11:57	1
Indeno[1,2,3-cd]pyrene	ND	H	1.9	0.40	ug/L		07/14/15 11:27	07/17/15 11:57	1
Isophorone	ND	H	9.3	0.68	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Methylnaphthalene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Methylphenol	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Methylphenol	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/17/15 11:57	1
Naphthalene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Nitroaniline	ND	H	46	6.2	ug/L		07/14/15 11:27	07/17/15 11:57	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	H	46	7.5	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Nitroaniline	ND	H	46	7.2	ug/L		07/14/15 11:27	07/17/15 11:57	1
Nitrobenzene	ND	H	19	1.4	ug/L		07/14/15 11:27	07/17/15 11:57	1
2-Nitrophenol	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/17/15 11:57	1
4-Nitrophenol	ND	H	46	7.4	ug/L		07/14/15 11:27	07/17/15 11:57	1
N-Nitrosodiphenylamine	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 11:57	1
N-Nitrosodi-n-propylamine	ND	H	9.3	0.46	ug/L		07/14/15 11:27	07/17/15 11:57	1
Pentachlorophenol	ND	H	9.3	4.6	ug/L		07/14/15 11:27	07/17/15 11:57	1
Phenanthrene	ND	H	1.9	0.38	ug/L		07/14/15 11:27	07/17/15 11:57	1
Phenol	ND	H	9.3	0.51	ug/L		07/14/15 11:27	07/17/15 11:57	1
Pyrene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/17/15 11:57	1
1,2,4-Trichlorobenzene	ND	H	9.3	0.79	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4,5-Trichlorophenol	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 11:57	1
2,4,6-Trichlorophenol	ND	H	9.3	2.8	ug/L		07/14/15 11:27	07/17/15 11:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.6	T H J	ug/L		9.92		07/14/15 11:27	07/17/15 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		28 - 106	07/14/15 11:27	07/17/15 11:57	1
2-Fluorophenol	48		20 - 108	07/14/15 11:27	07/17/15 11:57	1
2,4,6-Tribromophenol	51		25 - 118	07/14/15 11:27	07/17/15 11:57	1
Nitrobenzene-d5	55		27 - 110	07/14/15 11:27	07/17/15 11:57	1
Phenol-d5	53		23 - 111	07/14/15 11:27	07/17/15 11:57	1
Terphenyl-d14	66		20 - 109	07/14/15 11:27	07/17/15 11:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/17/15 18:26	1
Acenaphthylene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/17/15 18:26	1
Anthracene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzo[a]anthracene	ND	H	1.9	0.34	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzo[b]fluoranthene	ND	H	1.9	0.45	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzo[k]fluoranthene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzoic acid	ND	H	46	15	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzo[g,h,i]perylene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzo[a]pyrene	ND	H	1.9	0.26	ug/L		07/14/15 11:27	07/17/15 18:26	1
Benzyl alcohol	ND	H	9.3	1.8	ug/L		07/14/15 11:27	07/17/15 18:26	1
Bis(2-chloroethoxy)methane	ND	H	9.3	1.2	ug/L		07/14/15 11:27	07/17/15 18:26	1
Bis(2-chloroethyl)ether	ND	H	9.3	0.29	ug/L		07/14/15 11:27	07/17/15 18:26	1
Bis(2-ethylhexyl) phthalate	ND	H	19	4.1	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Bromophenyl phenyl ether	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 18:26	1
Butyl benzyl phthalate	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Chloroaniline	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Chloro-3-methylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Chloronaphthalene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Chlorophenol	ND	H	9.3	2.1	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Chlorophenyl phenyl ether	ND	H	9.3	0.74	ug/L		07/14/15 11:27	07/17/15 18:26	1
Chrysene	ND	H	1.9	0.29	ug/L		07/14/15 11:27	07/17/15 18:26	1
Dibenz(a,h)anthracene	ND	H	1.9	0.25	ug/L		07/14/15 11:27	07/17/15 18:26	1
Dibenzofuran	ND	H	9.3	0.89	ug/L		07/14/15 11:27	07/17/15 18:26	1
Di-n-butyl phthalate	ND	H	9.3	2.2	ug/L		07/14/15 11:27	07/17/15 18:26	1
1,2-Dichlorobenzene	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/17/15 18:26	1
1,3-Dichlorobenzene	ND	H	9.3	0.70	ug/L		07/14/15 11:27	07/17/15 18:26	1
3,3'-Dichlorobenzidine	ND	H	9.3	1.4	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4-Dichlorophenol	ND	H	9.3	0.62	ug/L		07/14/15 11:27	07/17/15 18:26	1
Diethyl phthalate	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4-Dimethylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/17/15 18:26	1
Dimethyl phthalate	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/17/15 18:26	1
4,6-Dinitro-2-methylphenol	ND	H	46	14	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4-Dinitrophenol	ND	H	46	23	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4-Dinitrotoluene	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,6-Dinitrotoluene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 18:26	1
Di-n-octyl phthalate	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/17/15 18:26	1
Fluoranthene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/17/15 18:26	1
Fluorene	ND	H	1.9	0.22	ug/L		07/14/15 11:27	07/17/15 18:26	1
Hexachlorobenzene	ND	H	9.3	0.56	ug/L		07/14/15 11:27	07/17/15 18:26	1
Hexachlorobutadiene	ND	H	9.3	0.87	ug/L		07/14/15 11:27	07/17/15 18:26	1
Hexachlorocyclopentadiene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 18:26	1
Hexachloroethane	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/17/15 18:26	1
Indeno[1,2,3-cd]pyrene	ND	H	1.9	0.40	ug/L		07/14/15 11:27	07/17/15 18:26	1
Isophorone	ND	H	9.3	0.68	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Methylnaphthalene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Methylphenol	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Methylphenol	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/17/15 18:26	1
Naphthalene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Nitroaniline	ND	H	46	6.2	ug/L		07/14/15 11:27	07/17/15 18:26	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	H	46	7.5	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Nitroaniline	ND	H	46	7.2	ug/L		07/14/15 11:27	07/17/15 18:26	1
Nitrobenzene	ND	H	19	1.4	ug/L		07/14/15 11:27	07/17/15 18:26	1
2-Nitrophenol	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/17/15 18:26	1
4-Nitrophenol	ND	H	46	7.4	ug/L		07/14/15 11:27	07/17/15 18:26	1
N-Nitrosodiphenylamine	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 18:26	1
N-Nitrosodi-n-propylamine	ND	H	9.3	0.46	ug/L		07/14/15 11:27	07/17/15 18:26	1
Pentachlorophenol	ND	H	9.3	4.6	ug/L		07/14/15 11:27	07/17/15 18:26	1
Phenanthrene	ND	H	1.9	0.38	ug/L		07/14/15 11:27	07/17/15 18:26	1
Phenol	ND	H	9.3	0.51	ug/L		07/14/15 11:27	07/17/15 18:26	1
Pyrene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/17/15 18:26	1
1,2,4-Trichlorobenzene	ND	H	9.3	0.79	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4,5-Trichlorophenol	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/17/15 18:26	1
2,4,6-Trichlorophenol	ND	H	9.3	2.8	ug/L		07/14/15 11:27	07/17/15 18:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None	H	ug/L				07/14/15 11:27	07/17/15 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		28 - 106	07/14/15 11:27	07/17/15 18:26	1
2-Fluorophenol	43		20 - 108	07/14/15 11:27	07/17/15 18:26	1
2,4,6-Tribromophenol	4 X		25 - 118	07/14/15 11:27	07/17/15 18:26	1
Nitrobenzene-d5	49		27 - 110	07/14/15 11:27	07/17/15 18:26	1
Phenol-d5	44		23 - 111	07/14/15 11:27	07/17/15 18:26	1
Terphenyl-d14	35		20 - 109	07/14/15 11:27	07/17/15 18:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/18/15 15:48	1
Acenaphthylene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/18/15 15:48	1
Anthracene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzo[a]anthracene	ND	H	1.9	0.34	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzo[b]fluoranthene	ND	H	1.9	0.45	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzo[k]fluoranthene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzoic acid	ND	H	46	15	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzo[g,h,i]perylene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzo[a]pyrene	ND	H	1.9	0.26	ug/L		07/14/15 11:27	07/18/15 15:48	1
Benzyl alcohol	ND	H	9.3	1.8	ug/L		07/14/15 11:27	07/18/15 15:48	1
Bis(2-chloroethoxy)methane	ND	H	9.3	1.2	ug/L		07/14/15 11:27	07/18/15 15:48	1
Bis(2-chloroethyl)ether	ND	H	9.3	0.29	ug/L		07/14/15 11:27	07/18/15 15:48	1
Bis(2-ethylhexyl) phthalate	ND	H	19	4.1	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Bromophenyl phenyl ether	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 15:48	1
Butyl benzyl phthalate	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Chloroaniline	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Chloro-3-methylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Chloronaphthalene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Chlorophenol	ND	H	9.3	2.1	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Chlorophenyl phenyl ether	ND	H	9.3	0.74	ug/L		07/14/15 11:27	07/18/15 15:48	1
Chrysene	ND	H	1.9	0.29	ug/L		07/14/15 11:27	07/18/15 15:48	1
Dibenz(a,h)anthracene	ND	H	1.9	0.25	ug/L		07/14/15 11:27	07/18/15 15:48	1
Dibenzofuran	ND	H	9.3	0.89	ug/L		07/14/15 11:27	07/18/15 15:48	1
Di-n-butyl phthalate	ND	H	9.3	2.2	ug/L		07/14/15 11:27	07/18/15 15:48	1
1,2-Dichlorobenzene	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/18/15 15:48	1
1,3-Dichlorobenzene	ND	H	9.3	0.70	ug/L		07/14/15 11:27	07/18/15 15:48	1
3,3'-Dichlorobenzidine	ND	H	9.3	1.4	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4-Dichlorophenol	ND	H	9.3	0.62	ug/L		07/14/15 11:27	07/18/15 15:48	1
Diethyl phthalate	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4-Dimethylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/18/15 15:48	1
Dimethyl phthalate	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/18/15 15:48	1
4,6-Dinitro-2-methylphenol	ND	H	46	14	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4-Dinitrophenol	ND	H	46	23	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4-Dinitrotoluene	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,6-Dinitrotoluene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 15:48	1
Di-n-octyl phthalate	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/18/15 15:48	1
Fluoranthene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/18/15 15:48	1
Fluorene	ND	H	1.9	0.22	ug/L		07/14/15 11:27	07/18/15 15:48	1
Hexachlorobenzene	ND	H	9.3	0.56	ug/L		07/14/15 11:27	07/18/15 15:48	1
Hexachlorobutadiene	ND	H	9.3	0.87	ug/L		07/14/15 11:27	07/18/15 15:48	1
Hexachlorocyclopentadiene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 15:48	1
Hexachloroethane	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 15:48	1
Indeno[1,2,3-cd]pyrene	ND	H	1.9	0.40	ug/L		07/14/15 11:27	07/18/15 15:48	1
Isophorone	ND	H	9.3	0.68	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Methylnaphthalene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Methylphenol	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Methylphenol	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/18/15 15:48	1
Naphthalene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Nitroaniline	ND	H	46	6.2	ug/L		07/14/15 11:27	07/18/15 15:48	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	H	46	7.5	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Nitroaniline	ND	H	46	7.2	ug/L		07/14/15 11:27	07/18/15 15:48	1
Nitrobenzene	ND	H	19	1.4	ug/L		07/14/15 11:27	07/18/15 15:48	1
2-Nitrophenol	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/18/15 15:48	1
4-Nitrophenol	ND	H	46	7.4	ug/L		07/14/15 11:27	07/18/15 15:48	1
N-Nitrosodiphenylamine	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 15:48	1
N-Nitrosodi-n-propylamine	ND	H	9.3	0.46	ug/L		07/14/15 11:27	07/18/15 15:48	1
Pentachlorophenol	ND	H	9.3	4.6	ug/L		07/14/15 11:27	07/18/15 15:48	1
Phenanthrene	ND	H	1.9	0.38	ug/L		07/14/15 11:27	07/18/15 15:48	1
Phenol	ND	H	9.3	0.51	ug/L		07/14/15 11:27	07/18/15 15:48	1
Pyrene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/18/15 15:48	1
1,2,4-Trichlorobenzene	ND	H	9.3	0.79	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4,5-Trichlorophenol	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 15:48	1
2,4,6-Trichlorophenol	ND	H	9.3	2.8	ug/L		07/14/15 11:27	07/18/15 15:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None	H	ug/L				07/14/15 11:27	07/18/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		28 - 106	07/14/15 11:27	07/18/15 15:48	1
2-Fluorophenol	46		20 - 108	07/14/15 11:27	07/18/15 15:48	1
2,4,6-Tribromophenol	39		25 - 118	07/14/15 11:27	07/18/15 15:48	1
Nitrobenzene-d5	56		27 - 110	07/14/15 11:27	07/18/15 15:48	1
Phenol-d5	52		23 - 111	07/14/15 11:27	07/18/15 15:48	1
Terphenyl-d14	76		20 - 109	07/14/15 11:27	07/18/15 15:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/18/15 16:17	1
Acenaphthylene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/18/15 16:17	1
Anthracene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzo[a]anthracene	ND	H	1.9	0.34	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzo[b]fluoranthene	ND	H	1.9	0.45	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzo[k]fluoranthene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzoic acid	ND	H	46	15	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzo[g,h,i]perylene	ND	H	1.9	0.27	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzo[a]pyrene	ND	H	1.9	0.26	ug/L		07/14/15 11:27	07/18/15 16:17	1
Benzyl alcohol	ND	H	9.3	1.8	ug/L		07/14/15 11:27	07/18/15 16:17	1
Bis(2-chloroethoxy)methane	ND	H	9.3	1.2	ug/L		07/14/15 11:27	07/18/15 16:17	1
Bis(2-chloroethyl)ether	ND	H	9.3	0.29	ug/L		07/14/15 11:27	07/18/15 16:17	1
Bis(2-ethylhexyl) phthalate	ND	H	19	4.1	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Bromophenyl phenyl ether	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 16:17	1
Butyl benzyl phthalate	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Chloroaniline	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Chloro-3-methylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Chloronaphthalene	ND	H	1.9	0.28	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Chlorophenol	ND	H	9.3	2.1	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Chlorophenyl phenyl ether	ND	H	9.3	0.74	ug/L		07/14/15 11:27	07/18/15 16:17	1
Chrysene	ND	H	1.9	0.29	ug/L		07/14/15 11:27	07/18/15 16:17	1
Dibenz(a,h)anthracene	ND	H	1.9	0.25	ug/L		07/14/15 11:27	07/18/15 16:17	1
Dibenzofuran	ND	H	9.3	0.89	ug/L		07/14/15 11:27	07/18/15 16:17	1
Di-n-butyl phthalate	ND	H	9.3	2.2	ug/L		07/14/15 11:27	07/18/15 16:17	1
1,2-Dichlorobenzene	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/18/15 16:17	1
1,3-Dichlorobenzene	ND	H	9.3	0.70	ug/L		07/14/15 11:27	07/18/15 16:17	1
3,3'-Dichlorobenzidine	ND	H	9.3	1.4	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4-Dichlorophenol	ND	H	9.3	0.62	ug/L		07/14/15 11:27	07/18/15 16:17	1
Diethyl phthalate	ND	H	9.3	2.7	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4-Dimethylphenol	ND	H	9.3	1.6	ug/L		07/14/15 11:27	07/18/15 16:17	1
Dimethyl phthalate	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/18/15 16:17	1
4,6-Dinitro-2-methylphenol	ND	H	46	14	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4-Dinitrophenol	ND	H	46	23	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4-Dinitrotoluene	ND	H	9.3	2.0	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,6-Dinitrotoluene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 16:17	1
Di-n-octyl phthalate	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/18/15 16:17	1
Fluoranthene	ND	H	1.9	0.20	ug/L		07/14/15 11:27	07/18/15 16:17	1
Fluorene	ND	H	1.9	0.22	ug/L		07/14/15 11:27	07/18/15 16:17	1
Hexachlorobenzene	ND	H	9.3	0.56	ug/L		07/14/15 11:27	07/18/15 16:17	1
Hexachlorobutadiene	ND	H	9.3	0.87	ug/L		07/14/15 11:27	07/18/15 16:17	1
Hexachlorocyclopentadiene	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 16:17	1
Hexachloroethane	ND	H	9.3	1.3	ug/L		07/14/15 11:27	07/18/15 16:17	1
Indeno[1,2,3-cd]pyrene	ND	H	1.9	0.40	ug/L		07/14/15 11:27	07/18/15 16:17	1
Isophorone	ND	H	9.3	0.68	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Methylnaphthalene	ND	H	1.9	0.18	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Methylphenol	ND	H	9.3	1.7	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Methylphenol	ND	H	9.3	1.9	ug/L		07/14/15 11:27	07/18/15 16:17	1
Naphthalene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Nitroaniline	ND	H	46	6.2	ug/L		07/14/15 11:27	07/18/15 16:17	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	H	46	7.5	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Nitroaniline	ND	H	46	7.2	ug/L		07/14/15 11:27	07/18/15 16:17	1
Nitrobenzene	ND	H	19	1.4	ug/L		07/14/15 11:27	07/18/15 16:17	1
2-Nitrophenol	ND	H	9.3	1.0	ug/L		07/14/15 11:27	07/18/15 16:17	1
4-Nitrophenol	ND	H	46	7.4	ug/L		07/14/15 11:27	07/18/15 16:17	1
N-Nitrosodiphenylamine	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 16:17	1
N-Nitrosodi-n-propylamine	ND	H	9.3	0.46	ug/L		07/14/15 11:27	07/18/15 16:17	1
Pentachlorophenol	ND	H	9.3	4.6	ug/L		07/14/15 11:27	07/18/15 16:17	1
Phenanthrene	ND	H	1.9	0.38	ug/L		07/14/15 11:27	07/18/15 16:17	1
Phenol	ND	H	9.3	0.51	ug/L		07/14/15 11:27	07/18/15 16:17	1
Pyrene	ND	H	1.9	0.21	ug/L		07/14/15 11:27	07/18/15 16:17	1
1,2,4-Trichlorobenzene	ND	H	9.3	0.79	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4,5-Trichlorophenol	ND	H	9.3	1.1	ug/L		07/14/15 11:27	07/18/15 16:17	1
2,4,6-Trichlorophenol	ND	H	9.3	2.8	ug/L		07/14/15 11:27	07/18/15 16:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None	H	ug/L				07/14/15 11:27	07/18/15 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		28 - 106	07/14/15 11:27	07/18/15 16:17	1
2-Fluorophenol	52		20 - 108	07/14/15 11:27	07/18/15 16:17	1
2,4,6-Tribromophenol	19	X	25 - 118	07/14/15 11:27	07/18/15 16:17	1
Nitrobenzene-d5	62		27 - 110	07/14/15 11:27	07/18/15 16:17	1
Phenol-d5	55		23 - 111	07/14/15 11:27	07/18/15 16:17	1
Terphenyl-d14	60		20 - 109	07/14/15 11:27	07/18/15 16:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-035

Lab Sample ID: 180-45493-1

Date Collected: 06/26/15 14:10

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/01/15 14:00	07/08/15 13:56	1
alpha-BHC	0.021	J p	0.025	0.013	ug/L		07/01/15 14:00	07/08/15 13:56	1
beta-BHC	0.12	p	0.025	0.020	ug/L		07/01/15 14:00	07/08/15 13:56	1
delta-BHC	0.10	p	0.025	0.0087	ug/L		07/01/15 14:00	07/08/15 13:56	1
gamma-BHC (Lindane)	0.024	J p	0.025	0.016	ug/L		07/01/15 14:00	07/08/15 13:56	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 13:56	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 13:56	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 13:56	1
4,4'-DDE	0.017	J p	0.025	0.016	ug/L		07/01/15 14:00	07/08/15 13:56	1
4,4'-DDT	0.037	p	0.025	0.015	ug/L		07/01/15 14:00	07/08/15 13:56	1
Dieldrin	0.022	J	0.025	0.016	ug/L		07/01/15 14:00	07/08/15 13:56	1
Endosulfan I	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 13:56	1
Endosulfan II	0.037	p	0.025	0.020	ug/L		07/01/15 14:00	07/08/15 13:56	1
Endosulfan sulfate	0.047	p	0.025	0.011	ug/L		07/01/15 14:00	07/08/15 13:56	1
Endrin	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 13:56	1
Endrin ketone	ND		0.025	0.018	ug/L		07/01/15 14:00	07/08/15 13:56	1
Heptachlor	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 13:56	1
Heptachlor epoxide	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 13:56	1
Methoxychlor	0.077	p	0.050	0.018	ug/L		07/01/15 14:00	07/08/15 13:56	1
Toxaphene	ND		2.0	0.37	ug/L		07/01/15 14:00	07/08/15 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		45 - 130	07/01/15 14:00	07/08/15 13:56	1
Tetrachloro-m-xylene	88		45 - 130	07/01/15 14:00	07/08/15 13:56	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130	07/01/15 14:00	07/08/15 13:56	1
DCB Decachlorobiphenyl (Surr)	83		45 - 130	07/01/15 14:00	07/08/15 13:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-032

Date Collected: 06/26/15 13:15

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/01/15 14:00	07/08/15 14:11	1
alpha-BHC	0.013	J p	0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:11	1
beta-BHC	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:11	1
delta-BHC	0.031	p	0.025	0.0087	ug/L		07/01/15 14:00	07/08/15 14:11	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:11	1
alpha-Chlordane	0.030		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:11	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:11	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:11	1
4,4'-DDE	0.023	J p	0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:11	1
4,4'-DDT	0.078	p	0.025	0.015	ug/L		07/01/15 14:00	07/08/15 14:11	1
Dieldrin	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:11	1
Endosulfan I	0.026	p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:11	1
Endosulfan II	0.036	p	0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:11	1
Endosulfan sulfate	0.039	p	0.025	0.011	ug/L		07/01/15 14:00	07/08/15 14:11	1
Endrin	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:11	1
Endrin ketone	ND		0.025	0.018	ug/L		07/01/15 14:00	07/08/15 14:11	1
Heptachlor	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:11	1
Heptachlor epoxide	0.020	J p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:11	1
Methoxychlor	0.069	p	0.050	0.018	ug/L		07/01/15 14:00	07/08/15 14:11	1
Toxaphene	ND		2.0	0.37	ug/L		07/01/15 14:00	07/08/15 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		45 - 130	07/01/15 14:00	07/08/15 14:11	1
Tetrachloro-m-xylene	87		45 - 130	07/01/15 14:00	07/08/15 14:11	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	07/01/15 14:00	07/08/15 14:11	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	07/01/15 14:00	07/08/15 14:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-033

Date Collected: 06/26/15 14:00

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/01/15 14:00	07/08/15 14:27	1
alpha-BHC	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:27	1
beta-BHC	0.038	p	0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:27	1
delta-BHC	0.025	p	0.025	0.0087	ug/L		07/01/15 14:00	07/08/15 14:27	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:27	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:27	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:27	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:27	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:27	1
4,4'-DDT	0.045	p	0.025	0.015	ug/L		07/01/15 14:00	07/08/15 14:27	1
Dieldrin	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:27	1
Endosulfan I	0.048	p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:27	1
Endosulfan II	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:27	1
Endosulfan sulfate	0.072	p	0.025	0.011	ug/L		07/01/15 14:00	07/08/15 14:27	1
Endrin	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:27	1
Endrin ketone	ND		0.025	0.018	ug/L		07/01/15 14:00	07/08/15 14:27	1
Heptachlor	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:27	1
Heptachlor epoxide	0.053		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:27	1
Methoxychlor	ND		0.050	0.018	ug/L		07/01/15 14:00	07/08/15 14:27	1
Toxaphene	ND		2.0	0.37	ug/L		07/01/15 14:00	07/08/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 130	07/01/15 14:00	07/08/15 14:27	1
Tetrachloro-m-xylene	89		45 - 130	07/01/15 14:00	07/08/15 14:27	1
DCB Decachlorobiphenyl (Surr)	92		45 - 130	07/01/15 14:00	07/08/15 14:27	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	07/01/15 14:00	07/08/15 14:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-034

Date Collected: 06/26/15 14:30

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/01/15 14:00	07/08/15 14:42	1
alpha-BHC	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:42	1
beta-BHC	0.049	p	0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:42	1
delta-BHC	0.023	J p	0.025	0.0087	ug/L		07/01/15 14:00	07/08/15 14:42	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:42	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:42	1
gamma-Chlordane	0.019	J p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:42	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/01/15 14:00	07/08/15 14:42	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:42	1
4,4'-DDT	0.055	p	0.025	0.015	ug/L		07/01/15 14:00	07/08/15 14:42	1
Dieldrin	ND		0.025	0.016	ug/L		07/01/15 14:00	07/08/15 14:42	1
Endosulfan I	0.024	J p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:42	1
Endosulfan II	0.049		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:42	1
Endosulfan sulfate	0.029		0.025	0.011	ug/L		07/01/15 14:00	07/08/15 14:42	1
Endrin	0.027	p	0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:42	1
Endrin ketone	ND		0.025	0.018	ug/L		07/01/15 14:00	07/08/15 14:42	1
Heptachlor	ND		0.025	0.020	ug/L		07/01/15 14:00	07/08/15 14:42	1
Heptachlor epoxide	ND		0.025	0.019	ug/L		07/01/15 14:00	07/08/15 14:42	1
Methoxychlor	0.086	p	0.050	0.018	ug/L		07/01/15 14:00	07/08/15 14:42	1
Toxaphene	ND		2.0	0.37	ug/L		07/01/15 14:00	07/08/15 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 130	07/01/15 14:00	07/08/15 14:42	1
Tetrachloro-m-xylene	83		45 - 130	07/01/15 14:00	07/08/15 14:42	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	07/01/15 14:00	07/08/15 14:42	1
DCB Decachlorobiphenyl (Surr)	81		45 - 130	07/01/15 14:00	07/08/15 14:42	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-029

Date Collected: 06/26/15 10:50

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 11:37	1
alpha-BHC	0.072		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 11:37	1
beta-BHC	0.024	J p	0.026	0.021	ug/L		07/01/15 14:00	07/09/15 11:37	1
delta-BHC	0.027	p	0.026	0.0091	ug/L		07/01/15 14:00	07/09/15 11:37	1
gamma-BHC (Lindane)	0.056		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 11:37	1
alpha-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
gamma-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
4,4'-DDD	ND		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 11:37	1
4,4'-DDE	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 11:37	1
4,4'-DDT	0.025	J p	0.026	0.015	ug/L		07/01/15 14:00	07/09/15 11:37	1
Dieldrin	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 11:37	1
Endosulfan I	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
Endosulfan II	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
Endosulfan sulfate	ND		0.026	0.012	ug/L		07/01/15 14:00	07/09/15 11:37	1
Endrin	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
Endrin ketone	ND		0.026	0.019	ug/L		07/01/15 14:00	07/09/15 11:37	1
Heptachlor	ND		0.026	0.021	ug/L		07/01/15 14:00	07/09/15 11:37	1
Heptachlor epoxide	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 11:37	1
Methoxychlor	0.051	J	0.052	0.019	ug/L		07/01/15 14:00	07/09/15 11:37	1
Toxaphene	ND		2.1	0.39	ug/L		07/01/15 14:00	07/09/15 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		45 - 130	07/01/15 14:00	07/09/15 11:37	1
Tetrachloro-m-xylene	97		45 - 130	07/01/15 14:00	07/09/15 11:37	1
DCB Decachlorobiphenyl (Surr)	94		45 - 130	07/01/15 14:00	07/09/15 11:37	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130	07/01/15 14:00	07/09/15 11:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-028

Date Collected: 06/26/15 09:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/01/15 14:00	07/09/15 11:52	1
alpha-BHC	0.090		0.025	0.013	ug/L		07/01/15 14:00	07/09/15 11:52	1
beta-BHC	0.021	J p	0.025	0.020	ug/L		07/01/15 14:00	07/09/15 11:52	1
delta-BHC	0.090		0.025	0.0087	ug/L		07/01/15 14:00	07/09/15 11:52	1
gamma-BHC (Lindane)	0.071		0.025	0.016	ug/L		07/01/15 14:00	07/09/15 11:52	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/01/15 14:00	07/09/15 11:52	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/01/15 14:00	07/09/15 11:52	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/01/15 14:00	07/09/15 11:52	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/01/15 14:00	07/09/15 11:52	1
4,4'-DDT	ND		0.025	0.015	ug/L		07/01/15 14:00	07/09/15 11:52	1
Dieldrin	0.061		0.025	0.016	ug/L		07/01/15 14:00	07/09/15 11:52	1
Endosulfan I	ND		0.025	0.019	ug/L		07/01/15 14:00	07/09/15 11:52	1
Endosulfan II	ND		0.025	0.020	ug/L		07/01/15 14:00	07/09/15 11:52	1
Endosulfan sulfate	ND		0.025	0.011	ug/L		07/01/15 14:00	07/09/15 11:52	1
Endrin	ND		0.025	0.019	ug/L		07/01/15 14:00	07/09/15 11:52	1
Endrin ketone	ND		0.025	0.018	ug/L		07/01/15 14:00	07/09/15 11:52	1
Heptachlor	ND		0.025	0.020	ug/L		07/01/15 14:00	07/09/15 11:52	1
Heptachlor epoxide	0.028		0.025	0.019	ug/L		07/01/15 14:00	07/09/15 11:52	1
Methoxychlor	0.024	J	0.050	0.018	ug/L		07/01/15 14:00	07/09/15 11:52	1
Toxaphene	ND		2.0	0.37	ug/L		07/01/15 14:00	07/09/15 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		45 - 130	07/01/15 14:00	07/09/15 11:52	1
Tetrachloro-m-xylene	91		45 - 130	07/01/15 14:00	07/09/15 11:52	1
DCB Decachlorobiphenyl (Surr)	98		45 - 130	07/01/15 14:00	07/09/15 11:52	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130	07/01/15 14:00	07/09/15 11:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:08	1
alpha-BHC	0.035		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 12:08	1
beta-BHC	0.077	p	0.026	0.021	ug/L		07/01/15 14:00	07/09/15 12:08	1
delta-BHC	0.032	p	0.026	0.0091	ug/L		07/01/15 14:00	07/09/15 12:08	1
gamma-BHC (Lindane)	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:08	1
alpha-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
gamma-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
4,4'-DDD	ND		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 12:08	1
4,4'-DDE	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:08	1
4,4'-DDT	0.057		0.026	0.015	ug/L		07/01/15 14:00	07/09/15 12:08	1
Dieldrin	0.032	p	0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:08	1
Endosulfan I	0.029	p	0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
Endosulfan II	0.023	J p	0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
Endosulfan sulfate	0.077		0.026	0.012	ug/L		07/01/15 14:00	07/09/15 12:08	1
Endrin	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
Endrin ketone	ND		0.026	0.019	ug/L		07/01/15 14:00	07/09/15 12:08	1
Heptachlor	ND		0.026	0.021	ug/L		07/01/15 14:00	07/09/15 12:08	1
Heptachlor epoxide	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:08	1
Methoxychlor	0.074		0.052	0.019	ug/L		07/01/15 14:00	07/09/15 12:08	1
Toxaphene	ND		2.1	0.39	ug/L		07/01/15 14:00	07/09/15 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		45 - 130	07/01/15 14:00	07/09/15 12:08	1
Tetrachloro-m-xylene	97		45 - 130	07/01/15 14:00	07/09/15 12:08	1
DCB Decachlorobiphenyl (Surr)	100		45 - 130	07/01/15 14:00	07/09/15 12:08	1
DCB Decachlorobiphenyl (Surr)	93		45 - 130	07/01/15 14:00	07/09/15 12:08	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-062615-SG-031

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:23	1
alpha-BHC	0.037		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 12:23	1
beta-BHC	ND		0.026	0.021	ug/L		07/01/15 14:00	07/09/15 12:23	1
delta-BHC	0.016	J p	0.026	0.0091	ug/L		07/01/15 14:00	07/09/15 12:23	1
gamma-BHC (Lindane)	0.041		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:23	1
alpha-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
gamma-Chlordane	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
4,4'-DDD	ND		0.026	0.014	ug/L		07/01/15 14:00	07/09/15 12:23	1
4,4'-DDE	ND		0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:23	1
4,4'-DDT	0.029	p	0.026	0.015	ug/L		07/01/15 14:00	07/09/15 12:23	1
Dieldrin	0.019	J	0.026	0.017	ug/L		07/01/15 14:00	07/09/15 12:23	1
Endosulfan I	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
Endosulfan II	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
Endosulfan sulfate	0.039		0.026	0.012	ug/L		07/01/15 14:00	07/09/15 12:23	1
Endrin	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
Endrin ketone	ND		0.026	0.019	ug/L		07/01/15 14:00	07/09/15 12:23	1
Heptachlor	ND		0.026	0.021	ug/L		07/01/15 14:00	07/09/15 12:23	1
Heptachlor epoxide	ND		0.026	0.020	ug/L		07/01/15 14:00	07/09/15 12:23	1
Methoxychlor	0.11		0.052	0.019	ug/L		07/01/15 14:00	07/09/15 12:23	1
Toxaphene	ND		2.1	0.39	ug/L		07/01/15 14:00	07/09/15 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		45 - 130	07/01/15 14:00	07/09/15 12:23	1
Tetrachloro-m-xylene	93		45 - 130	07/01/15 14:00	07/09/15 12:23	1
DCB Decachlorobiphenyl (Surr)	99		45 - 130	07/01/15 14:00	07/09/15 12:23	1
DCB Decachlorobiphenyl (Surr)	91		45 - 130	07/01/15 14:00	07/09/15 12:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-035

Lab Sample ID: 180-45493-1

Date Collected: 06/26/15 14:10

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1221	ND		0.20	0.082	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1232	ND		0.20	0.078	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1242	ND		0.20	0.037	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1248	ND		0.20	0.054	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1254	ND		0.20	0.060	ug/L		07/01/15 14:00	07/07/15 00:52	1
PCB-1260	ND		0.20	0.034	ug/L		07/01/15 14:00	07/07/15 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	134		35 - 140	07/01/15 14:00	07/07/15 00:52	1
Tetrachloro-m-xylene (Surr)	93		35 - 140	07/01/15 14:00	07/07/15 00:52	1
DCB Decachlorobiphenyl (Surr)	98		35 - 140	07/01/15 14:00	07/07/15 00:52	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/01/15 14:00	07/07/15 00:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-032

Lab Sample ID: 180-45493-2

Date Collected: 06/26/15 13:15

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1221	ND		0.20	0.082	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1232	ND		0.20	0.078	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1242	ND		0.20	0.037	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1248	ND		0.20	0.054	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1254	ND		0.20	0.060	ug/L		07/01/15 14:00	07/07/15 01:11	1
PCB-1260	ND		0.20	0.034	ug/L		07/01/15 14:00	07/07/15 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	217	X	35 - 140	07/01/15 14:00	07/07/15 01:11	1
Tetrachloro-m-xylene (Surr)	109	p	35 - 140	07/01/15 14:00	07/07/15 01:11	1
DCB Decachlorobiphenyl (Surr)	99		35 - 140	07/01/15 14:00	07/07/15 01:11	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	07/01/15 14:00	07/07/15 01:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-033

Lab Sample ID: 180-45493-3

Date Collected: 06/26/15 14:00

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1221	ND		0.20	0.082	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1232	ND		0.20	0.078	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1242	ND		0.20	0.037	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1248	ND		0.20	0.054	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1254	ND		0.20	0.060	ug/L		07/01/15 14:00	07/07/15 01:30	1
PCB-1260	ND		0.20	0.034	ug/L		07/01/15 14:00	07/07/15 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	616	X	35 - 140	07/01/15 14:00	07/07/15 01:30	1
Tetrachloro-m-xylene (Surr)	133	p	35 - 140	07/01/15 14:00	07/07/15 01:30	1
DCB Decachlorobiphenyl (Surr)	103		35 - 140	07/01/15 14:00	07/07/15 01:30	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/01/15 14:00	07/07/15 01:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-034

Lab Sample ID: 180-45493-4

Date Collected: 06/26/15 14:30

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1221	ND		0.20	0.082	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1232	ND		0.20	0.078	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1242	ND		0.20	0.037	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1248	ND		0.20	0.054	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1254	ND		0.20	0.060	ug/L		07/01/15 14:00	07/07/15 01:49	1
PCB-1260	ND		0.20	0.034	ug/L		07/01/15 14:00	07/07/15 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	167	X	35 - 140	07/01/15 14:00	07/07/15 01:49	1
Tetrachloro-m-xylene (Surr)	83	p	35 - 140	07/01/15 14:00	07/07/15 01:49	1
DCB Decachlorobiphenyl (Surr)	96		35 - 140	07/01/15 14:00	07/07/15 01:49	1
DCB Decachlorobiphenyl (Surr)	90		35 - 140	07/01/15 14:00	07/07/15 01:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-029

Lab Sample ID: 180-45493-5

Date Collected: 06/26/15 10:50

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.052	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1221	ND		0.21	0.085	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1232	ND		0.21	0.081	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1242	ND		0.21	0.039	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1248	ND		0.21	0.056	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1254	ND		0.21	0.063	ug/L		07/01/15 14:00	07/07/15 02:07	1
PCB-1260	ND		0.21	0.035	ug/L		07/01/15 14:00	07/07/15 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	91		35 - 140	07/01/15 14:00	07/07/15 02:07	1
Tetrachloro-m-xylene (Surr)	80		35 - 140	07/01/15 14:00	07/07/15 02:07	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/01/15 14:00	07/07/15 02:07	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/01/15 14:00	07/07/15 02:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-028

Lab Sample ID: 180-45493-6

Date Collected: 06/26/15 09:45

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1221	ND		0.20	0.082	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1232	ND		0.20	0.078	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1242	ND		0.20	0.037	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1248	ND		0.20	0.054	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1254	ND		0.20	0.060	ug/L		07/01/15 14:00	07/07/15 02:26	1
PCB-1260	ND		0.20	0.034	ug/L		07/01/15 14:00	07/07/15 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		35 - 140	07/01/15 14:00	07/07/15 02:26	1
Tetrachloro-m-xylene (Surr)	77		35 - 140	07/01/15 14:00	07/07/15 02:26	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	07/01/15 14:00	07/07/15 02:26	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/01/15 14:00	07/07/15 02:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-030

Date Collected: 06/26/15 12:45

Date Received: 06/27/15 09:30

Lab Sample ID: 180-45493-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.052	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1221	ND		0.21	0.085	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1232	ND		0.21	0.081	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1242	ND		0.21	0.039	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1248	ND		0.21	0.056	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1254	ND		0.21	0.063	ug/L		07/01/15 14:00	07/07/15 02:45	1
PCB-1260	ND		0.21	0.035	ug/L		07/01/15 14:00	07/07/15 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	137		35 - 140	07/01/15 14:00	07/07/15 02:45	1
Tetrachloro-m-xylene (Surr)	79	p	35 - 140	07/01/15 14:00	07/07/15 02:45	1
DCB Decachlorobiphenyl (Surr)	98		35 - 140	07/01/15 14:00	07/07/15 02:45	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	07/01/15 14:00	07/07/15 02:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45493-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-062615-SG-031

Lab Sample ID: 180-45493-9

Date Collected: 06/26/15 12:45

Matrix: Water

Date Received: 06/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.052	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1221	ND		0.21	0.085	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1232	ND		0.21	0.081	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1242	ND		0.21	0.039	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1248	ND		0.21	0.056	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1254	ND		0.21	0.063	ug/L		07/01/15 14:00	07/07/15 03:03	1
PCB-1260	ND		0.21	0.035	ug/L		07/01/15 14:00	07/07/15 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	102		35 - 140	07/01/15 14:00	07/07/15 03:03	1
Tetrachloro-m-xylene (Surr)	91		35 - 140	07/01/15 14:00	07/07/15 03:03	1
DCB Decachlorobiphenyl (Surr)	97		35 - 140	07/01/15 14:00	07/07/15 03:03	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/01/15 14:00	07/07/15 03:03	1

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	3	<i>Shawn Hardner</i>	6/26/15	1600	<i>Dennie Watson</i>	6-27-15	9:30
AIRBILL#:							

ANALYTICAL REPORT

Job Number: 180-45580-1

Job Description: 9954, Love Canal Annual

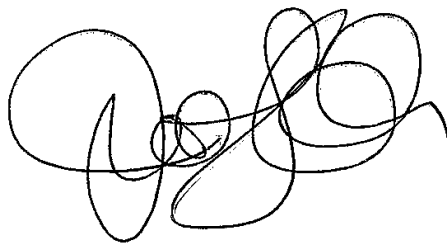
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/21/2015 4:17 PM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/21/2015

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: GHD Services Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45580-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/2/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7° C, 2.3° C and 3.9° C.

The earliest time sampled was logged in as the sampling time for the TRIP BLANK as per the laboratory SOP.

VOLATILES

The relative percent difference between the matrix spike and the matrix spike duplicate of sample WG-9954-070115-SG-037 (180-45580-4) was outside of the control limits for 1,1-Dichloroethene.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCBS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Client Sample ID: WG-9954-070115-SG-039

Lab Sample ID: 180-45580-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
beta-BHC	0.034	p	0.026	0.021	ug/L	1			8081B	Total/NA
delta-BHC	0.035	p	0.026	0.0091	ug/L	1			8081B	Total/NA
4,4'-DDD	0.017	J p	0.026	0.014	ug/L	1			8081B	Total/NA
4,4'-DDT	0.030		0.026	0.015	ug/L	1			8081B	Total/NA
Endosulfan II	0.054	p	0.026	0.020	ug/L	1			8081B	Total/NA
Endosulfan sulfate	0.043	p	0.026	0.012	ug/L	1			8081B	Total/NA
Endrin	0.021	J p	0.026	0.020	ug/L	1			8081B	Total/NA
Methoxychlor	0.11		0.052	0.019	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070115-SG-038

Lab Sample ID: 180-45580-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	2.2	J	5.0	1.1	ug/L	1			8260C	Total/NA
delta-BHC	0.035		0.026	0.0091	ug/L	1			8081B	Total/NA
4,4'-DDT	0.017	J p	0.026	0.015	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070115-SG-040

Lab Sample ID: 180-45580-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	1.5	J	5.0	1.1	ug/L	1			8260C	Total/NA
delta-BHC	0.032	p	0.025	0.0087	ug/L	1			8081B	Total/NA
4,4'-DDD	0.022	J	0.025	0.013	ug/L	1			8081B	Total/NA
Endosulfan sulfate	0.014	J p	0.025	0.011	ug/L	1			8081B	Total/NA
Methoxychlor	0.028	J p	0.050	0.018	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070115-SG-037

Lab Sample ID: 180-45580-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
delta-BHC	0.042		0.025	0.0087	ug/L	1			8081B	Total/NA
4,4'-DDD	0.034		0.025	0.013	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070115-SG-036

Lab Sample ID: 180-45580-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
delta-BHC	0.025	p	0.025	0.0087	ug/L	1			8081B	Total/NA
4,4'-DDT	0.023	J	0.025	0.015	ug/L	1			8081B	Total/NA
Methoxychlor	0.039	J p	0.050	0.018	ug/L	1			8081B	Total/NA

Client Sample ID: LCTRIP-070115-SG

Lab Sample ID: 180-45580-6

No Detections.

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070115-SG-039

Lab Sample ID: 180-45580-1

Date Collected: 07/01/15 12:35

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 20:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 20:17	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 20:17	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 20:17	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 20:17	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 20:17	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 20:17	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 20:17	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 20:17	1
Acetone	ND		20	5.0	ug/L			07/08/15 20:17	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 20:17	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 20:17	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 20:17	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 20:17	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 20:17	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 20:17	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 20:17	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 20:17	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 20:17	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 20:17	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 20:17	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 20:17	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 20:17	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 20:17	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 20:17	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 20:17	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 20:17	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 20:17	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 20:17	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 20:17	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 20:17	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 20:17	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 20:17	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 20:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 123		07/08/15 20:17	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/08/15 20:17	1
Dibromofluoromethane (Surr)	98		80 - 120		07/08/15 20:17	1
Toluene-d8 (Surr)	106		80 - 120		07/08/15 20:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070115-SG-038

Date Collected: 07/01/15 11:00

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 19:51	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 19:51	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:51	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 19:51	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 19:51	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 19:51	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 19:51	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 19:51	1
Acetone	ND		20	5.0	ug/L			07/08/15 19:51	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 19:51	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 19:51	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 19:51	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 19:51	1
Carbon disulfide	2.2	J	5.0	1.1	ug/L			07/08/15 19:51	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 19:51	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 19:51	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 19:51	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 19:51	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 19:51	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 19:51	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 19:51	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 19:51	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 19:51	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 19:51	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 19:51	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 19:51	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 19:51	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 19:51	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 19:51	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 19:51	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 19:51	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 19:51	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 19:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		62 - 123		07/08/15 19:51	1
4-Bromofluorobenzene (Surr)	88		75 - 120		07/08/15 19:51	1
Dibromofluoromethane (Surr)	101		80 - 120		07/08/15 19:51	1
Toluene-d8 (Surr)	104		80 - 120		07/08/15 19:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070115-SG-040

Date Collected: 07/01/15 13:40

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 19:27	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 19:27	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 19:27	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 19:27	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 19:27	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 19:27	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 19:27	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 19:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 19:27	1
Acetone	ND		20	5.0	ug/L			07/08/15 19:27	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 19:27	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 19:27	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 19:27	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 19:27	1
Carbon disulfide	1.5	J	5.0	1.1	ug/L			07/08/15 19:27	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 19:27	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 19:27	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 19:27	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 19:27	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 19:27	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 19:27	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 19:27	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 19:27	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 19:27	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 19:27	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 19:27	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 19:27	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 19:27	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 19:27	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 19:27	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 19:27	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 19:27	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 19:27	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 19:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	50	T J N	ug/L		1.26	7446-09-5		07/08/15 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 123		07/08/15 19:27	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/08/15 19:27	1
Dibromofluoromethane (Surr)	99		80 - 120		07/08/15 19:27	1
Toluene-d8 (Surr)	104		80 - 120		07/08/15 19:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070115-SG-037

Date Collected: 07/01/15 10:05

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 12:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 12:39	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 12:39	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 12:39	1
1,1-Dichloroethene	ND	F2	5.0	1.1	ug/L			07/08/15 12:39	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 12:39	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 12:39	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 12:39	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 12:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 12:39	1
Acetone	ND		20	5.0	ug/L			07/08/15 12:39	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 12:39	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 12:39	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 12:39	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 12:39	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 12:39	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 12:39	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 12:39	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 12:39	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 12:39	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 12:39	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 12:39	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 12:39	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 12:39	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 12:39	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 12:39	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 12:39	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 12:39	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 12:39	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 12:39	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 12:39	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 12:39	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 12:39	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 12:39	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 12:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 123		07/08/15 12:39	1
4-Bromofluorobenzene (Surr)	84		75 - 120		07/08/15 12:39	1
Dibromofluoromethane (Surr)	89		80 - 120		07/08/15 12:39	1
Toluene-d8 (Surr)	103		80 - 120		07/08/15 12:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070115-SG-036

Date Collected: 07/01/15 09:15

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 20:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 20:41	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 20:41	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 20:41	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 20:41	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 20:41	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 20:41	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 20:41	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 20:41	1
Acetone	ND		20	5.0	ug/L			07/08/15 20:41	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 20:41	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 20:41	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 20:41	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 20:41	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 20:41	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 20:41	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 20:41	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 20:41	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 20:41	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 20:41	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 20:41	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 20:41	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 20:41	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 20:41	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 20:41	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 20:41	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 20:41	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 20:41	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 20:41	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 20:41	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 20:41	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 20:41	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 20:41	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 20:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		62 - 123		07/08/15 20:41	1
4-Bromofluorobenzene (Surr)	93		75 - 120		07/08/15 20:41	1
Dibromofluoromethane (Surr)	101		80 - 120		07/08/15 20:41	1
Toluene-d8 (Surr)	113		80 - 120		07/08/15 20:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-070115-SG

Date Collected: 07/01/15 09:15

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/08/15 12:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/08/15 12:15	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/08/15 12:15	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/08/15 12:15	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/08/15 12:15	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/08/15 12:15	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/08/15 12:15	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/08/15 12:15	1
2-Hexanone	ND		5.0	0.57	ug/L			07/08/15 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/08/15 12:15	1
Acetone	ND		20	5.0	ug/L			07/08/15 12:15	1
Benzene	ND		5.0	0.99	ug/L			07/08/15 12:15	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/08/15 12:15	1
Bromoform	ND		5.0	1.1	ug/L			07/08/15 12:15	1
Bromomethane	ND		5.0	1.6	ug/L			07/08/15 12:15	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/08/15 12:15	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/08/15 12:15	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/08/15 12:15	1
Chloroethane	ND		5.0	0.75	ug/L			07/08/15 12:15	1
Chloroform	ND		5.0	1.0	ug/L			07/08/15 12:15	1
Chloromethane	ND		5.0	1.4	ug/L			07/08/15 12:15	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/08/15 12:15	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/08/15 12:15	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/08/15 12:15	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/08/15 12:15	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/08/15 12:15	1
Styrene	ND		5.0	0.64	ug/L			07/08/15 12:15	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/08/15 12:15	1
Toluene	ND		5.0	0.85	ug/L			07/08/15 12:15	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/08/15 12:15	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/08/15 12:15	1
Trichloroethene	ND		5.0	0.80	ug/L			07/08/15 12:15	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/08/15 12:15	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/08/15 12:15	1
Xylenes, Total	ND		10	1.7	ug/L			07/08/15 12:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/08/15 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 123		07/08/15 12:15	1
4-Bromofluorobenzene (Surr)	84		75 - 120		07/08/15 12:15	1
Dibromofluoromethane (Surr)	94		80 - 120		07/08/15 12:15	1
Toluene-d8 (Surr)	103		80 - 120		07/08/15 12:15	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070115-SG-039

Lab Sample ID: 180-45580-1

Date Collected: 07/01/15 12:35

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 12:25	1
Acenaphthylene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 12:25	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzoic acid	ND		48	16	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 12:25	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/08/15 09:12	07/17/15 12:25	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 12:25	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		07/08/15 09:12	07/17/15 12:25	1
Bis(2-ethylhexyl) phthalate	ND		19	4.2	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		07/08/15 09:12	07/17/15 12:25	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Chloroaniline	ND		9.6	2.8	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Chlorophenol	ND		9.6	2.2	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		07/08/15 09:12	07/17/15 12:25	1
Chrysene	ND		1.9	0.30	ug/L		07/08/15 09:12	07/17/15 12:25	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 12:25	1
Dibenzofuran	ND		9.6	0.93	ug/L		07/08/15 09:12	07/17/15 12:25	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		07/08/15 09:12	07/17/15 12:25	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		07/08/15 09:12	07/17/15 12:25	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		07/08/15 09:12	07/17/15 12:25	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		07/08/15 09:12	07/17/15 12:25	1
Diethyl phthalate	ND		9.6	2.9	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		07/08/15 09:12	07/17/15 12:25	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		07/08/15 09:12	07/17/15 12:25	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4-Dinitrophenol	ND		48	24	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 12:25	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		07/08/15 09:12	07/17/15 12:25	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 12:25	1
Fluorene	ND		1.9	0.23	ug/L		07/08/15 09:12	07/17/15 12:25	1
Hexachlorobenzene	ND		9.6	0.59	ug/L		07/08/15 09:12	07/17/15 12:25	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		07/08/15 09:12	07/17/15 12:25	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 12:25	1
Hexachloroethane	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 12:25	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		07/08/15 09:12	07/17/15 12:25	1
Isophorone	ND		9.6	0.71	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Methylphenol	ND		9.6	1.8	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Methylphenol	ND		9.6	2.0	ug/L		07/08/15 09:12	07/17/15 12:25	1
Naphthalene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Nitroaniline	ND		48	6.5	ug/L		07/08/15 09:12	07/17/15 12:25	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070115-SG-039

Date Collected: 07/01/15 12:35

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Nitroaniline	ND		48	7.4	ug/L		07/08/15 09:12	07/17/15 12:25	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 12:25	1
2-Nitrophenol	ND		9.6	1.1	ug/L		07/08/15 09:12	07/17/15 12:25	1
4-Nitrophenol	ND		48	7.7	ug/L		07/08/15 09:12	07/17/15 12:25	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		07/08/15 09:12	07/17/15 12:25	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		07/08/15 09:12	07/17/15 12:25	1
Pentachlorophenol	ND		9.6	4.8	ug/L		07/08/15 09:12	07/17/15 12:25	1
Phenanthrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 12:25	1
Phenol	ND		9.6	0.53	ug/L		07/08/15 09:12	07/17/15 12:25	1
Pyrene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 12:25	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		07/08/15 09:12	07/17/15 12:25	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		07/08/15 09:12	07/17/15 12:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		28 - 106	07/08/15 09:12	07/17/15 12:25	1
2-Fluorophenol	66		20 - 108	07/08/15 09:12	07/17/15 12:25	1
2,4,6-Tribromophenol	50		25 - 118	07/08/15 09:12	07/17/15 12:25	1
Nitrobenzene-d5	71		27 - 110	07/08/15 09:12	07/17/15 12:25	1
Phenol-d5	66		23 - 111	07/08/15 09:12	07/17/15 12:25	1
Terphenyl-d14	75		20 - 109	07/08/15 09:12	07/17/15 12:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070115-SG-038

Date Collected: 07/01/15 11:00

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 12:53	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 12:53	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 12:53	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 12:53	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 12:53	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 12:53	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 12:53	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 12:53	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 12:53	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 12:53	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 12:53	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 12:53	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 12:53	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 12:53	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 12:53	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 12:53	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 12:53	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 12:53	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 12:53	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 12:53	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 12:53	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 12:53	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 12:53	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 12:53	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 12:53	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 12:53	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 12:53	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 12:53	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070115-SG-038

Date Collected: 07/01/15 11:00

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 12:53	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 12:53	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 12:53	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 12:53	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 12:53	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 12:53	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 12:53	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 12:53	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 12:53	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 12:53	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 12:53	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 12:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		28 - 106	07/08/15 09:12	07/17/15 12:53	1
2-Fluorophenol	67		20 - 108	07/08/15 09:12	07/17/15 12:53	1
2,4,6-Tribromophenol	42		25 - 118	07/08/15 09:12	07/17/15 12:53	1
Nitrobenzene-d5	74		27 - 110	07/08/15 09:12	07/17/15 12:53	1
Phenol-d5	69		23 - 111	07/08/15 09:12	07/17/15 12:53	1
Terphenyl-d14	77		20 - 109	07/08/15 09:12	07/17/15 12:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070115-SG-040

Date Collected: 07/01/15 13:40

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 13:20	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 13:20	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 13:20	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 13:20	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 13:20	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 13:20	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:20	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 13:20	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 13:20	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 13:20	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 13:20	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 13:20	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 13:20	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 13:20	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 13:20	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 13:20	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 13:20	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:20	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 13:20	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 13:20	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 13:20	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 13:20	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 13:20	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:20	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:20	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 13:20	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 13:20	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 13:20	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070115-SG-040

Date Collected: 07/01/15 13:40

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 13:20	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 13:20	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 13:20	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 13:20	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:20	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 13:20	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 13:20	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 13:20	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 13:20	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 13:20	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:20	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 13:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		28 - 106	07/08/15 09:12	07/17/15 13:20	1
2-Fluorophenol	70		20 - 108	07/08/15 09:12	07/17/15 13:20	1
2,4,6-Tribromophenol	43		25 - 118	07/08/15 09:12	07/17/15 13:20	1
Nitrobenzene-d5	76		27 - 110	07/08/15 09:12	07/17/15 13:20	1
Phenol-d5	72		23 - 111	07/08/15 09:12	07/17/15 13:20	1
Terphenyl-d14	83		20 - 109	07/08/15 09:12	07/17/15 13:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070115-SG-037

Date Collected: 07/01/15 10:05

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 13:48	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 13:48	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 13:48	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 13:48	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 13:48	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 13:48	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:48	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 13:48	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 13:48	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 13:48	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 13:48	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 13:48	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 13:48	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 13:48	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 13:48	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 13:48	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 13:48	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:48	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 13:48	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 13:48	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 13:48	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 13:48	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 13:48	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:48	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 13:48	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 13:48	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 13:48	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 13:48	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070115-SG-037

Date Collected: 07/01/15 10:05

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 13:48	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 13:48	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 13:48	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 13:48	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:48	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 13:48	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 13:48	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 13:48	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 13:48	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 13:48	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 13:48	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 13:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		28 - 106	07/08/15 09:12	07/17/15 13:48	1
2-Fluorophenol	68		20 - 108	07/08/15 09:12	07/17/15 13:48	1
2,4,6-Tribromophenol	34		25 - 118	07/08/15 09:12	07/17/15 13:48	1
Nitrobenzene-d5	74		27 - 110	07/08/15 09:12	07/17/15 13:48	1
Phenol-d5	69		23 - 111	07/08/15 09:12	07/17/15 13:48	1
Terphenyl-d14	73		20 - 109	07/08/15 09:12	07/17/15 13:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070115-SG-036

Date Collected: 07/01/15 09:15

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 15:11	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 15:11	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 15:11	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 15:11	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 15:11	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 15:11	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 15:11	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 15:11	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 15:11	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 15:11	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 15:11	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 15:11	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 15:11	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 15:11	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 15:11	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 15:11	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 15:11	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 15:11	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 15:11	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 15:11	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 15:11	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 15:11	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 15:11	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 15:11	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 15:11	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 15:11	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 15:11	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 15:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070115-SG-036

Date Collected: 07/01/15 09:15

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 15:11	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 15:11	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 15:11	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 15:11	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 15:11	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 15:11	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 15:11	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 15:11	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 15:11	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 15:11	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 15:11	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 15:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9.5	T J	ug/L		10.61		07/08/15 09:12	07/17/15 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		28 - 106	07/08/15 09:12	07/17/15 15:11	1
2-Fluorophenol	74		20 - 108	07/08/15 09:12	07/17/15 15:11	1
2,4,6-Tribromophenol	54		25 - 118	07/08/15 09:12	07/17/15 15:11	1
Nitrobenzene-d5	81		27 - 110	07/08/15 09:12	07/17/15 15:11	1
Phenol-d5	73		23 - 111	07/08/15 09:12	07/17/15 15:11	1
Terphenyl-d14	78		20 - 109	07/08/15 09:12	07/17/15 15:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070115-SG-039

Lab Sample ID: 180-45580-1

Date Collected: 07/01/15 12:35

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 12:54	1
alpha-BHC	ND		0.026	0.014	ug/L		07/02/15 15:00	07/09/15 12:54	1
beta-BHC	0.034	p	0.026	0.021	ug/L		07/02/15 15:00	07/09/15 12:54	1
delta-BHC	0.035	p	0.026	0.0091	ug/L		07/02/15 15:00	07/09/15 12:54	1
gamma-BHC (Lindane)	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 12:54	1
alpha-Chlordane	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
gamma-Chlordane	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
4,4'-DDD	0.017	J p	0.026	0.014	ug/L		07/02/15 15:00	07/09/15 12:54	1
4,4'-DDE	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 12:54	1
4,4'-DDT	0.030		0.026	0.015	ug/L		07/02/15 15:00	07/09/15 12:54	1
Dieldrin	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 12:54	1
Endosulfan I	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
Endosulfan II	0.054	p	0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
Endosulfan sulfate	0.043	p	0.026	0.012	ug/L		07/02/15 15:00	07/09/15 12:54	1
Endrin	0.021	J p	0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
Endrin ketone	ND		0.026	0.019	ug/L		07/02/15 15:00	07/09/15 12:54	1
Heptachlor	ND		0.026	0.021	ug/L		07/02/15 15:00	07/09/15 12:54	1
Heptachlor epoxide	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 12:54	1
Methoxychlor	0.11		0.052	0.019	ug/L		07/02/15 15:00	07/09/15 12:54	1
Toxaphene	ND		2.1	0.39	ug/L		07/02/15 15:00	07/09/15 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		45 - 130	07/02/15 15:00	07/09/15 12:54	1
Tetrachloro-m-xylene	90		45 - 130	07/02/15 15:00	07/09/15 12:54	1
DCB Decachlorobiphenyl (Surr)	80		45 - 130	07/02/15 15:00	07/09/15 12:54	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	07/02/15 15:00	07/09/15 12:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070115-SG-038

Date Collected: 07/01/15 11:00

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 13:10	1
alpha-BHC	ND		0.026	0.014	ug/L		07/02/15 15:00	07/09/15 13:10	1
beta-BHC	ND		0.026	0.021	ug/L		07/02/15 15:00	07/09/15 13:10	1
delta-BHC	0.035		0.026	0.0091	ug/L		07/02/15 15:00	07/09/15 13:10	1
gamma-BHC (Lindane)	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 13:10	1
alpha-Chlordane	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
gamma-Chlordane	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
4,4'-DDD	ND		0.026	0.014	ug/L		07/02/15 15:00	07/09/15 13:10	1
4,4'-DDE	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 13:10	1
4,4'-DDT	0.017	J p	0.026	0.015	ug/L		07/02/15 15:00	07/09/15 13:10	1
Dieldrin	ND		0.026	0.017	ug/L		07/02/15 15:00	07/09/15 13:10	1
Endosulfan I	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
Endosulfan II	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
Endosulfan sulfate	ND		0.026	0.012	ug/L		07/02/15 15:00	07/09/15 13:10	1
Endrin	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
Endrin ketone	ND		0.026	0.019	ug/L		07/02/15 15:00	07/09/15 13:10	1
Heptachlor	ND		0.026	0.021	ug/L		07/02/15 15:00	07/09/15 13:10	1
Heptachlor epoxide	ND		0.026	0.020	ug/L		07/02/15 15:00	07/09/15 13:10	1
Methoxychlor	ND		0.052	0.019	ug/L		07/02/15 15:00	07/09/15 13:10	1
Toxaphene	ND		2.1	0.39	ug/L		07/02/15 15:00	07/09/15 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		45 - 130	07/02/15 15:00	07/09/15 13:10	1
Tetrachloro-m-xylene	87		45 - 130	07/02/15 15:00	07/09/15 13:10	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	07/02/15 15:00	07/09/15 13:10	1
DCB Decachlorobiphenyl (Surr)	82		45 - 130	07/02/15 15:00	07/09/15 13:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070115-SG-040

Date Collected: 07/01/15 13:40

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/02/15 15:00	07/09/15 13:26	1
alpha-BHC	ND		0.025	0.013	ug/L		07/02/15 15:00	07/09/15 13:26	1
beta-BHC	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:26	1
delta-BHC	0.032	p	0.025	0.0087	ug/L		07/02/15 15:00	07/09/15 13:26	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:26	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:26	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:26	1
4,4'-DDD	0.022	J	0.025	0.013	ug/L		07/02/15 15:00	07/09/15 13:26	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:26	1
4,4'-DDT	ND		0.025	0.015	ug/L		07/02/15 15:00	07/09/15 13:26	1
Dieldrin	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:26	1
Endosulfan I	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:26	1
Endosulfan II	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:26	1
Endosulfan sulfate	0.014	J p	0.025	0.011	ug/L		07/02/15 15:00	07/09/15 13:26	1
Endrin	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:26	1
Endrin ketone	ND		0.025	0.018	ug/L		07/02/15 15:00	07/09/15 13:26	1
Heptachlor	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:26	1
Heptachlor epoxide	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:26	1
Methoxychlor	0.028	J p	0.050	0.018	ug/L		07/02/15 15:00	07/09/15 13:26	1
Toxaphene	ND		2.0	0.37	ug/L		07/02/15 15:00	07/09/15 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		45 - 130	07/02/15 15:00	07/09/15 13:26	1
Tetrachloro-m-xylene	90		45 - 130	07/02/15 15:00	07/09/15 13:26	1
DCB Decachlorobiphenyl (Surr)	94		45 - 130	07/02/15 15:00	07/09/15 13:26	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	07/02/15 15:00	07/09/15 13:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070115-SG-037

Date Collected: 07/01/15 10:05

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/02/15 15:00	07/09/15 13:41	1
alpha-BHC	ND		0.025	0.013	ug/L		07/02/15 15:00	07/09/15 13:41	1
beta-BHC	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:41	1
delta-BHC	0.042		0.025	0.0087	ug/L		07/02/15 15:00	07/09/15 13:41	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:41	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:41	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:41	1
4,4'-DDD	0.034		0.025	0.013	ug/L		07/02/15 15:00	07/09/15 13:41	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:41	1
4,4'-DDT	ND		0.025	0.015	ug/L		07/02/15 15:00	07/09/15 13:41	1
Dieldrin	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 13:41	1
Endosulfan I	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:41	1
Endosulfan II	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:41	1
Endosulfan sulfate	ND		0.025	0.011	ug/L		07/02/15 15:00	07/09/15 13:41	1
Endrin	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:41	1
Endrin ketone	ND		0.025	0.018	ug/L		07/02/15 15:00	07/09/15 13:41	1
Heptachlor	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 13:41	1
Heptachlor epoxide	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 13:41	1
Methoxychlor	ND		0.050	0.018	ug/L		07/02/15 15:00	07/09/15 13:41	1
Toxaphene	ND		2.0	0.37	ug/L		07/02/15 15:00	07/09/15 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		45 - 130	07/02/15 15:00	07/09/15 13:41	1
Tetrachloro-m-xylene	88		45 - 130	07/02/15 15:00	07/09/15 13:41	1
DCB Decachlorobiphenyl (Surr)	90		45 - 130	07/02/15 15:00	07/09/15 13:41	1
DCB Decachlorobiphenyl (Surr)	84		45 - 130	07/02/15 15:00	07/09/15 13:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070115-SG-036

Date Collected: 07/01/15 09:15

Date Received: 07/02/15 09:00

Lab Sample ID: 180-45580-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.025	0.017	ug/L		07/02/15 15:00	07/09/15 14:28	1
alpha-BHC	ND		0.025	0.013	ug/L		07/02/15 15:00	07/09/15 14:28	1
beta-BHC	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 14:28	1
delta-BHC	0.025	p	0.025	0.0087	ug/L		07/02/15 15:00	07/09/15 14:28	1
gamma-BHC (Lindane)	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 14:28	1
alpha-Chlordane	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 14:28	1
gamma-Chlordane	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 14:28	1
4,4'-DDD	ND		0.025	0.013	ug/L		07/02/15 15:00	07/09/15 14:28	1
4,4'-DDE	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 14:28	1
4,4'-DDT	0.023	J	0.025	0.015	ug/L		07/02/15 15:00	07/09/15 14:28	1
Dieldrin	ND		0.025	0.016	ug/L		07/02/15 15:00	07/09/15 14:28	1
Endosulfan I	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 14:28	1
Endosulfan II	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 14:28	1
Endosulfan sulfate	ND		0.025	0.011	ug/L		07/02/15 15:00	07/09/15 14:28	1
Endrin	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 14:28	1
Endrin ketone	ND		0.025	0.018	ug/L		07/02/15 15:00	07/09/15 14:28	1
Heptachlor	ND		0.025	0.020	ug/L		07/02/15 15:00	07/09/15 14:28	1
Heptachlor epoxide	ND		0.025	0.019	ug/L		07/02/15 15:00	07/09/15 14:28	1
Methoxychlor	0.039	J p	0.050	0.018	ug/L		07/02/15 15:00	07/09/15 14:28	1
Toxaphene	ND		2.0	0.37	ug/L		07/02/15 15:00	07/09/15 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		45 - 130	07/02/15 15:00	07/09/15 14:28	1
Tetrachloro-m-xylene	88		45 - 130	07/02/15 15:00	07/09/15 14:28	1
DCB Decachlorobiphenyl (Surr)	95		45 - 130	07/02/15 15:00	07/09/15 14:28	1
DCB Decachlorobiphenyl (Surr)	87		45 - 130	07/02/15 15:00	07/09/15 14:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070115-SG-039

Lab Sample ID: 180-45580-1

Date Collected: 07/01/15 12:35

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.052	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1221	ND		0.21	0.085	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1232	ND		0.21	0.081	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1242	ND		0.21	0.039	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1248	ND		0.21	0.056	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1254	ND		0.21	0.063	ug/L		07/02/15 15:00	07/06/15 22:04	1
PCB-1260	ND		0.21	0.035	ug/L		07/02/15 15:00	07/06/15 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	133		35 - 140	07/02/15 15:00	07/06/15 22:04	1
Tetrachloro-m-xylene (Surr)	84	p	35 - 140	07/02/15 15:00	07/06/15 22:04	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/02/15 15:00	07/06/15 22:04	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	07/02/15 15:00	07/06/15 22:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070115-SG-038

Lab Sample ID: 180-45580-2

Date Collected: 07/01/15 11:00

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.052	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1221	ND		0.21	0.085	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1232	ND		0.21	0.081	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1242	ND		0.21	0.039	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1248	ND		0.21	0.056	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1254	ND		0.21	0.063	ug/L		07/02/15 15:00	07/06/15 22:23	1
PCB-1260	ND		0.21	0.035	ug/L		07/02/15 15:00	07/06/15 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		35 - 140	07/02/15 15:00	07/06/15 22:23	1
Tetrachloro-m-xylene (Surr)	81		35 - 140	07/02/15 15:00	07/06/15 22:23	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/02/15 15:00	07/06/15 22:23	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/02/15 15:00	07/06/15 22:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070115-SG-040

Lab Sample ID: 180-45580-3

Date Collected: 07/01/15 13:40

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1221	ND		0.20	0.082	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1232	ND		0.20	0.078	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1242	ND		0.20	0.037	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1248	ND		0.20	0.054	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1254	ND		0.20	0.060	ug/L		07/02/15 15:00	07/06/15 22:41	1
PCB-1260	ND		0.20	0.034	ug/L		07/02/15 15:00	07/06/15 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	106		35 - 140	07/02/15 15:00	07/06/15 22:41	1
Tetrachloro-m-xylene (Surr)	85		35 - 140	07/02/15 15:00	07/06/15 22:41	1
DCB Decachlorobiphenyl (Surr)	96		35 - 140	07/02/15 15:00	07/06/15 22:41	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/02/15 15:00	07/06/15 22:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070115-SG-037

Lab Sample ID: 180-45580-4

Date Collected: 07/01/15 10:05

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1221	ND		0.20	0.082	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1232	ND		0.20	0.078	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1242	ND		0.20	0.037	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1248	ND		0.20	0.054	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1254	ND		0.20	0.060	ug/L		07/02/15 15:00	07/06/15 23:00	1
PCB-1260	ND		0.20	0.034	ug/L		07/02/15 15:00	07/06/15 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	90		35 - 140	07/02/15 15:00	07/06/15 23:00	1
Tetrachloro-m-xylene (Surr)	82		35 - 140	07/02/15 15:00	07/06/15 23:00	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/02/15 15:00	07/06/15 23:00	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/02/15 15:00	07/06/15 23:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45580-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070115-SG-036

Lab Sample ID: 180-45580-5

Date Collected: 07/01/15 09:15

Matrix: Water

Date Received: 07/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.050	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1221	ND		0.20	0.082	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1232	ND		0.20	0.078	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1242	ND		0.20	0.037	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1248	ND		0.20	0.054	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1254	ND		0.20	0.060	ug/L		07/02/15 15:00	07/06/15 23:56	1
PCB-1260	ND		0.20	0.034	ug/L		07/02/15 15:00	07/06/15 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	107		35 - 140	07/02/15 15:00	07/06/15 23:56	1
Tetrachloro-m-xylene (Surr)	91		35 - 140	07/02/15 15:00	07/06/15 23:56	1
DCB Decachlorobiphenyl (Surr)	96		35 - 140	07/02/15 15:00	07/06/15 23:56	1
DCB Decachlorobiphenyl (Surr)	97		35 - 140	07/02/15 15:00	07/06/15 23:56	1

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: TEST AMERICA PITTSBURGH	
Laboratory Location: 301 ALPHA DRIVE PITTSBURGH, PA 15238	
Laboratory Contact: JILL COLUSSY	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-07-1	
SSOW Ref#:	
Sampler Name: SHAWN GARDNER	



180-45580 Chain of Custody

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	PestPCBs (None)	PestPCBs (None)	SVOC (none)	VOA (HCl)	Remarks
WG-9954-070115-SG-039		WG	07/01/2015	12:35	4	4	2	3	
WG-9954-070115-SG-038		WG	07/01/2015	11:00	4	4	2	3	
WG-9954-070115-SG-040		WG	07/01/2015	13:40	4	4	2	3	
WG-9954-070115-SG-037		WG	07/01/2015	10:05	12	12	6	9	MS/MSD
WG-9954-070115-SG-036		WG	07/01/2015	09:15	4	4	2	3	
LCTRIIP-070115-SG		WG	07/01/2015	00:00	0	0	0	3	
Total Bottles					28	28	14	24	Grand Total:94

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	3	Shawn Gardner	7/1/15	1540	Deliver W. Stone	7-2-15	9:00
AIRBILL#:					TAP		

ANALYTICAL REPORT

Job Number: 180-45625-1

Job Description: 9954, Love Canal Annual

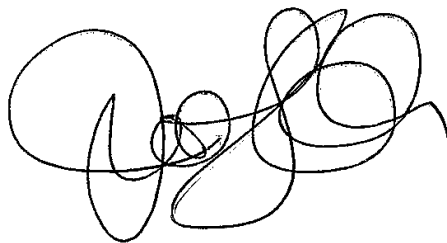
For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Ms. Sue Scrocchi



Approved for release.
Jill L. Colussy
Project Manager I
7/23/2015 8:46 AM

Jill L. Colussy, Project Manager I
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2444
jill.colussy@testamericainc.com
07/23/2015

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TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: GHD Services Inc.

Project: 9954, Love Canal Annual

Report Number: 180-45625-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/3/2015 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.1° C and 3.4° C.

The earliest time sampled was logged in as the sampling time for the TRIP BLANK as per the laboratory SOP.

VOLATILES

The matrix spike and matrix spike duplicate of sample WG-9954-070215-SG-041 (180-45625-3) recovered outside of the control limits for 1,1-Dichloroethene and/or Vinyl acetate. The relative percent difference between the matrix spike and the matrix spike duplicate was outside of the control limits for Acetone and Vinyl acetate.

SEMIVOLATILES

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PESTICIDES

Sample WG-9954-070215-SG-044 (180-45625-6) had surrogate tetrachloro-m-xylene recover outside of the control limits on one column.

PCBS

Sample WG-9954-070215-SG-041 (180-45625-3) had surrogate tetrachloro-m-xylene recover outside of the control limits on both columns. The recoveries of decachlorobiphenyl surrogate were within the control limits. All data was reported.

Sample WG-9954-070215-SG-043 (180-45625-5) had surrogate tetrachloro-m-xylene recover outside of the control limits on one column.

Detection Summary

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Client Sample ID: LCTRIP-070215-SG

Lab Sample ID: 180-45625-1

No Detections.

Client Sample ID: RB-9954-070215-SG-046

Lab Sample ID: 180-45625-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		5.0	1.1	ug/L	1			8260C	Total/NA
Methylene Chloride	8.1		5.0	1.1	ug/L	1			8260C	Total/NA
alpha-BHC	0.27		0.052	0.028	ug/L	1			8081B	Total/NA
delta-BHC	0.039	J	0.052	0.018	ug/L	1			8081B	Total/NA
gamma-BHC (Lindane)	0.20		0.052	0.033	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070215-SG-041

Lab Sample ID: 180-45625-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	7.9		5.0	1.1	ug/L	1			8260C	Total/NA
delta-BHC	0.022	J p	0.052	0.018	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070215-SG-042

Lab Sample ID: 180-45625-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
alpha-BHC	0.054		0.052	0.028	ug/L	1			8081B	Total/NA
Endrin	0.13		0.052	0.040	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070215-SG-043

Lab Sample ID: 180-45625-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	2.1	J	5.0	1.1	ug/L	1			8260C	Total/NA
alpha-BHC	0.042	J	0.052	0.028	ug/L	1			8081B	Total/NA
4,4'-DDT	0.053	p	0.052	0.031	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070215-SG-044

Lab Sample ID: 180-45625-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	2.0	J	5.0	1.1	ug/L	1			8260C	Total/NA
alpha-BHC	0.087		0.052	0.028	ug/L	1			8081B	Total/NA
delta-BHC	0.061		0.052	0.018	ug/L	1			8081B	Total/NA
gamma-BHC (Lindane)	0.062		0.052	0.033	ug/L	1			8081B	Total/NA
4,4'-DDD	0.033	J p	0.052	0.028	ug/L	1			8081B	Total/NA
4,4'-DDT	0.070		0.052	0.031	ug/L	1			8081B	Total/NA

Client Sample ID: WG-9954-070215-SG-045

Lab Sample ID: 180-45625-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	0.95	J	5.0	0.85	ug/L	1			8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: LCTRIIP-070215-SG

Date Collected: 07/02/15 09:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 11:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 11:46	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 11:46	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 11:46	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 11:46	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 11:46	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 11:46	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 11:46	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 11:46	1
Acetone	ND		20	5.0	ug/L			07/09/15 11:46	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 11:46	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 11:46	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 11:46	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 11:46	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/09/15 11:46	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 11:46	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 11:46	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 11:46	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 11:46	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 11:46	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 11:46	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 11:46	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 11:46	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 11:46	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 11:46	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 11:46	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 11:46	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 11:46	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 11:46	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 11:46	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 11:46	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 11:46	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 11:46	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 11:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/09/15 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 123		07/09/15 11:46	1
4-Bromofluorobenzene (Surr)	82		75 - 120		07/09/15 11:46	1
Dibromofluoromethane (Surr)	94		80 - 120		07/09/15 11:46	1
Toluene-d8 (Surr)	107		80 - 120		07/09/15 11:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: RB-9954-070215-SG-046

Date Collected: 07/02/15 12:30

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 13:00	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 13:00	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:00	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 13:00	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 13:00	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 13:00	1
2-Butanone (MEK)	8.0		5.0	1.1	ug/L			07/09/15 13:00	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 13:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 13:00	1
Acetone	ND		20	5.0	ug/L			07/09/15 13:00	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 13:00	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 13:00	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 13:00	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 13:00	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/09/15 13:00	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 13:00	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 13:00	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 13:00	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 13:00	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 13:00	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 13:00	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 13:00	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 13:00	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 13:00	1
Methylene Chloride	8.1		5.0	1.1	ug/L			07/09/15 13:00	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 13:00	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 13:00	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 13:00	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 13:00	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 13:00	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 13:00	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 13:00	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 13:00	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 13:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Furan, tetrahydro-	5.8	T J N	ug/L		5.15	109-99-9		07/09/15 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		62 - 123		07/09/15 13:00	1
4-Bromofluorobenzene (Surr)	87		75 - 120		07/09/15 13:00	1
Dibromofluoromethane (Surr)	100		80 - 120		07/09/15 13:00	1
Toluene-d8 (Surr)	114		80 - 120		07/09/15 13:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070215-SG-041

Date Collected: 07/02/15 09:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 13:25	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 13:25	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:25	1
1,1-Dichloroethene	ND	F1	5.0	1.1	ug/L			07/09/15 13:25	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 13:25	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 13:25	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 13:25	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 13:25	1
Acetone	ND	F2	20	5.0	ug/L			07/09/15 13:25	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 13:25	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 13:25	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 13:25	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 13:25	1
Carbon disulfide	7.9		5.0	1.1	ug/L			07/09/15 13:25	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 13:25	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 13:25	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 13:25	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 13:25	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 13:25	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 13:25	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 13:25	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 13:25	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 13:25	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 13:25	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 13:25	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 13:25	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 13:25	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 13:25	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 13:25	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 13:25	1
Vinyl acetate	ND	F1 F2	5.0	0.86	ug/L			07/09/15 13:25	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 13:25	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 13:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					07/09/15 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		62 - 123		07/09/15 13:25	1
4-Bromofluorobenzene (Surr)	83		75 - 120		07/09/15 13:25	1
Dibromofluoromethane (Surr)	101		80 - 120		07/09/15 13:25	1
Toluene-d8 (Surr)	111		80 - 120		07/09/15 13:25	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070215-SG-042

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 13:49	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 13:49	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 13:49	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 13:49	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 13:49	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 13:49	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 13:49	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 13:49	1
Acetone	ND		20	5.0	ug/L			07/09/15 13:49	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 13:49	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 13:49	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 13:49	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 13:49	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/09/15 13:49	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 13:49	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 13:49	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 13:49	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 13:49	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 13:49	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 13:49	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 13:49	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 13:49	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 13:49	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 13:49	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 13:49	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 13:49	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 13:49	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 13:49	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 13:49	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 13:49	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 13:49	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 13:49	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 13:49	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	94	T J N	ug/L		1.28	7446-09-5		07/09/15 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 123		07/09/15 13:49	1
4-Bromofluorobenzene (Surr)	85		75 - 120		07/09/15 13:49	1
Dibromofluoromethane (Surr)	95		80 - 120		07/09/15 13:49	1
Toluene-d8 (Surr)	107		80 - 120		07/09/15 13:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070215-SG-043

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 14:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 14:13	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 14:13	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 14:13	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 14:13	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 14:13	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 14:13	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 14:13	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 14:13	1
Acetone	ND		20	5.0	ug/L			07/09/15 14:13	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 14:13	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 14:13	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 14:13	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 14:13	1
Carbon disulfide	2.1	J	5.0	1.1	ug/L			07/09/15 14:13	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 14:13	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 14:13	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 14:13	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 14:13	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 14:13	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 14:13	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 14:13	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 14:13	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 14:13	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 14:13	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 14:13	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 14:13	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 14:13	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 14:13	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 14:13	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 14:13	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 14:13	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 14:13	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 14:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	120	T J N	ug/L		1.27	7446-09-5		07/09/15 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		62 - 123		07/09/15 14:13	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/09/15 14:13	1
Dibromofluoromethane (Surr)	101		80 - 120		07/09/15 14:13	1
Toluene-d8 (Surr)	104		80 - 120		07/09/15 14:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070215-SG-044

Date Collected: 07/02/15 10:55

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 14:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 14:38	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 14:38	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 14:38	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 14:38	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 14:38	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 14:38	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 14:38	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 14:38	1
Acetone	ND		20	5.0	ug/L			07/09/15 14:38	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 14:38	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 14:38	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 14:38	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 14:38	1
Carbon disulfide	2.0	J	5.0	1.1	ug/L			07/09/15 14:38	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 14:38	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 14:38	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 14:38	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 14:38	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 14:38	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 14:38	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 14:38	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 14:38	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 14:38	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 14:38	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 14:38	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 14:38	1
Toluene	ND		5.0	0.85	ug/L			07/09/15 14:38	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 14:38	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 14:38	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 14:38	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 14:38	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 14:38	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 14:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	86	T J N	ug/L		1.26	7446-09-5		07/09/15 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		62 - 123		07/09/15 14:38	1
4-Bromofluorobenzene (Surr)	83		75 - 120		07/09/15 14:38	1
Dibromofluoromethane (Surr)	97		80 - 120		07/09/15 14:38	1
Toluene-d8 (Surr)	106		80 - 120		07/09/15 14:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: WG-9954-070215-SG-045

Date Collected: 07/02/15 12:10

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			07/09/15 15:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			07/09/15 15:02	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/09/15 15:02	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			07/09/15 15:02	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			07/09/15 15:02	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			07/09/15 15:02	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			07/09/15 15:02	1
2-Butanone (MEK)	ND		5.0	1.1	ug/L			07/09/15 15:02	1
2-Hexanone	ND		5.0	0.57	ug/L			07/09/15 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.59	ug/L			07/09/15 15:02	1
Acetone	ND		20	5.0	ug/L			07/09/15 15:02	1
Benzene	ND		5.0	0.99	ug/L			07/09/15 15:02	1
Bromodichloromethane	ND		5.0	0.93	ug/L			07/09/15 15:02	1
Bromoform	ND		5.0	1.1	ug/L			07/09/15 15:02	1
Bromomethane	ND		5.0	1.6	ug/L			07/09/15 15:02	1
Carbon disulfide	ND		5.0	1.1	ug/L			07/09/15 15:02	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			07/09/15 15:02	1
Chlorobenzene	ND		5.0	0.53	ug/L			07/09/15 15:02	1
Chloroethane	ND		5.0	0.75	ug/L			07/09/15 15:02	1
Chloroform	ND		5.0	1.0	ug/L			07/09/15 15:02	1
Chloromethane	ND		5.0	1.4	ug/L			07/09/15 15:02	1
cis-1,2-Dichloroethene	ND		5.0	0.67	ug/L			07/09/15 15:02	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			07/09/15 15:02	1
Dibromochloromethane	ND		5.0	0.65	ug/L			07/09/15 15:02	1
Ethylbenzene	ND		5.0	0.62	ug/L			07/09/15 15:02	1
Methylene Chloride	ND		5.0	1.1	ug/L			07/09/15 15:02	1
Styrene	ND		5.0	0.64	ug/L			07/09/15 15:02	1
Tetrachloroethene	ND		5.0	0.82	ug/L			07/09/15 15:02	1
Toluene	0.95 J		5.0	0.85	ug/L			07/09/15 15:02	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			07/09/15 15:02	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			07/09/15 15:02	1
Trichloroethene	ND		5.0	0.80	ug/L			07/09/15 15:02	1
Vinyl acetate	ND		5.0	0.86	ug/L			07/09/15 15:02	1
Vinyl chloride	ND		5.0	1.3	ug/L			07/09/15 15:02	1
Xylenes, Total	ND		10	1.7	ug/L			07/09/15 15:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	96	T J N	ug/L		1.26	7446-09-5		07/09/15 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		62 - 123		07/09/15 15:02	1
4-Bromofluorobenzene (Surr)	87		75 - 120		07/09/15 15:02	1
Dibromofluoromethane (Surr)	109		80 - 120		07/09/15 15:02	1
Toluene-d8 (Surr)	106		80 - 120		07/09/15 15:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: RB-9954-070215-SG-046

Date Collected: 07/02/15 12:30

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 15:39	1
Acenaphthylene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 15:39	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzo[a]anthracene	ND		1.9	0.35	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzo[b]fluoranthene	ND		1.9	0.47	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzo[k]fluoranthene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzoic acid	ND		48	16	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzo[g,h,i]perylene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzo[a]pyrene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 15:39	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/08/15 09:12	07/17/15 15:39	1
Bis(2-chloroethoxy)methane	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 15:39	1
Bis(2-chloroethyl)ether	ND		9.6	0.30	ug/L		07/08/15 09:12	07/17/15 15:39	1
Bis(2-ethylhexyl) phthalate	ND		19	4.2	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Bromophenyl phenyl ether	ND		9.6	1.1	ug/L		07/08/15 09:12	07/17/15 15:39	1
Butyl benzyl phthalate	ND		9.6	2.1	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Chloroaniline	ND		9.6	2.8	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Chloro-3-methylphenol	ND		9.6	1.6	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Chloronaphthalene	ND		1.9	0.30	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Chlorophenol	ND		9.6	2.2	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Chlorophenyl phenyl ether	ND		9.6	0.77	ug/L		07/08/15 09:12	07/17/15 15:39	1
Chrysene	ND		1.9	0.30	ug/L		07/08/15 09:12	07/17/15 15:39	1
Dibenz(a,h)anthracene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 15:39	1
Dibenzofuran	ND		9.6	0.93	ug/L		07/08/15 09:12	07/17/15 15:39	1
Di-n-butyl phthalate	ND		9.6	2.3	ug/L		07/08/15 09:12	07/17/15 15:39	1
1,2-Dichlorobenzene	ND		9.6	1.0	ug/L		07/08/15 09:12	07/17/15 15:39	1
1,3-Dichlorobenzene	ND		9.6	0.72	ug/L		07/08/15 09:12	07/17/15 15:39	1
3,3'-Dichlorobenzidine	ND		9.6	1.4	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4-Dichlorophenol	ND		9.6	0.65	ug/L		07/08/15 09:12	07/17/15 15:39	1
Diethyl phthalate	ND		9.6	2.9	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4-Dimethylphenol	ND		9.6	1.6	ug/L		07/08/15 09:12	07/17/15 15:39	1
Dimethyl phthalate	ND		9.6	1.8	ug/L		07/08/15 09:12	07/17/15 15:39	1
4,6-Dinitro-2-methylphenol	ND		48	15	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4-Dinitrophenol	ND		48	24	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4-Dinitrotoluene	ND		9.6	2.1	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,6-Dinitrotoluene	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 15:39	1
Di-n-octyl phthalate	ND		9.6	2.0	ug/L		07/08/15 09:12	07/17/15 15:39	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 15:39	1
Fluorene	ND		1.9	0.23	ug/L		07/08/15 09:12	07/17/15 15:39	1
Hexachlorobenzene	ND		9.6	0.59	ug/L		07/08/15 09:12	07/17/15 15:39	1
Hexachlorobutadiene	ND		9.6	0.90	ug/L		07/08/15 09:12	07/17/15 15:39	1
Hexachlorocyclopentadiene	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 15:39	1
Hexachloroethane	ND		9.6	1.3	ug/L		07/08/15 09:12	07/17/15 15:39	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.42	ug/L		07/08/15 09:12	07/17/15 15:39	1
Isophorone	ND		9.6	0.71	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Methylphenol	ND		9.6	1.8	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Methylphenol	ND		9.6	2.0	ug/L		07/08/15 09:12	07/17/15 15:39	1
Naphthalene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Nitroaniline	ND		48	6.5	ug/L		07/08/15 09:12	07/17/15 15:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-9954-070215-SG-046

Date Collected: 07/02/15 12:30

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		48	7.7	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Nitroaniline	ND		48	7.4	ug/L		07/08/15 09:12	07/17/15 15:39	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 15:39	1
2-Nitrophenol	ND		9.6	1.1	ug/L		07/08/15 09:12	07/17/15 15:39	1
4-Nitrophenol	ND		48	7.7	ug/L		07/08/15 09:12	07/17/15 15:39	1
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		07/08/15 09:12	07/17/15 15:39	1
N-Nitrosodi-n-propylamine	ND		9.6	0.48	ug/L		07/08/15 09:12	07/17/15 15:39	1
Pentachlorophenol	ND		9.6	4.8	ug/L		07/08/15 09:12	07/17/15 15:39	1
Phenanthrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 15:39	1
Phenol	ND		9.6	0.53	ug/L		07/08/15 09:12	07/17/15 15:39	1
Pyrene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 15:39	1
1,2,4-Trichlorobenzene	ND		9.6	0.82	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4,5-Trichlorophenol	ND		9.6	1.2	ug/L		07/08/15 09:12	07/17/15 15:39	1
2,4,6-Trichlorophenol	ND		9.6	2.9	ug/L		07/08/15 09:12	07/17/15 15:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		28 - 106	07/08/15 09:12	07/17/15 15:39	1
2-Fluorophenol	65		20 - 108	07/08/15 09:12	07/17/15 15:39	1
2,4,6-Tribromophenol	40		25 - 118	07/08/15 09:12	07/17/15 15:39	1
Nitrobenzene-d5	71		27 - 110	07/08/15 09:12	07/17/15 15:39	1
Phenol-d5	66		23 - 111	07/08/15 09:12	07/17/15 15:39	1
Terphenyl-d14	67		20 - 109	07/08/15 09:12	07/17/15 15:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070215-SG-041

Date Collected: 07/02/15 09:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 16:07	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 16:07	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 16:07	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 16:07	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 16:07	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 16:07	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:07	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 16:07	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 16:07	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 16:07	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 16:07	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 16:07	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 16:07	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 16:07	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 16:07	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 16:07	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 16:07	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:07	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 16:07	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 16:07	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 16:07	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 16:07	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 16:07	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:07	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:07	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 16:07	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 16:07	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 16:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070215-SG-041

Date Collected: 07/02/15 09:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 16:07	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 16:07	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 16:07	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 16:07	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:07	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 16:07	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 16:07	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 16:07	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 16:07	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 16:07	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:07	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 16:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		28 - 106	07/08/15 09:12	07/17/15 16:07	1
2-Fluorophenol	65		20 - 108	07/08/15 09:12	07/17/15 16:07	1
2,4,6-Tribromophenol	42		25 - 118	07/08/15 09:12	07/17/15 16:07	1
Nitrobenzene-d5	71		27 - 110	07/08/15 09:12	07/17/15 16:07	1
Phenol-d5	65		23 - 111	07/08/15 09:12	07/17/15 16:07	1
Terphenyl-d14	66		20 - 109	07/08/15 09:12	07/17/15 16:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070215-SG-042

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 16:35	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 16:35	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 16:35	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 16:35	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 16:35	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 16:35	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:35	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 16:35	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 16:35	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 16:35	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 16:35	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 16:35	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 16:35	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 16:35	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 16:35	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 16:35	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 16:35	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:35	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 16:35	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 16:35	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 16:35	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 16:35	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 16:35	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:35	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 16:35	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 16:35	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 16:35	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 16:35	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070215-SG-042

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 16:35	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 16:35	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 16:35	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 16:35	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:35	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 16:35	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 16:35	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 16:35	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 16:35	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 16:35	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 16:35	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 16:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		28 - 106	07/08/15 09:12	07/17/15 16:35	1
2-Fluorophenol	63		20 - 108	07/08/15 09:12	07/17/15 16:35	1
2,4,6-Tribromophenol	40		25 - 118	07/08/15 09:12	07/17/15 16:35	1
Nitrobenzene-d5	69		27 - 110	07/08/15 09:12	07/17/15 16:35	1
Phenol-d5	64		23 - 111	07/08/15 09:12	07/17/15 16:35	1
Terphenyl-d14	73		20 - 109	07/08/15 09:12	07/17/15 16:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070215-SG-043

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 17:03	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 17:03	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 17:03	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 17:03	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 17:03	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 17:03	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:03	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 17:03	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 17:03	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 17:03	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 17:03	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 17:03	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 17:03	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 17:03	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 17:03	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 17:03	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 17:03	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:03	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 17:03	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 17:03	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 17:03	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 17:03	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 17:03	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:03	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:03	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 17:03	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 17:03	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 17:03	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070215-SG-043

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 17:03	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 17:03	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 17:03	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 17:03	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:03	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 17:03	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 17:03	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 17:03	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 17:03	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 17:03	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:03	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 17:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	23	T J	ug/L		9.86		07/08/15 09:12	07/17/15 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		28 - 106	07/08/15 09:12	07/17/15 17:03	1
2-Fluorophenol	72		20 - 108	07/08/15 09:12	07/17/15 17:03	1
2,4,6-Tribromophenol	29		25 - 118	07/08/15 09:12	07/17/15 17:03	1
Nitrobenzene-d5	79		27 - 110	07/08/15 09:12	07/17/15 17:03	1
Phenol-d5	72		23 - 111	07/08/15 09:12	07/17/15 17:03	1
Terphenyl-d14	80		20 - 109	07/08/15 09:12	07/17/15 17:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070215-SG-044

Date Collected: 07/02/15 10:55

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 17:30	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 17:30	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/17/15 17:30	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/17/15 17:30	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/17/15 17:30	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/17/15 17:30	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:30	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/17/15 17:30	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/17/15 17:30	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/17/15 17:30	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/17/15 17:30	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/17/15 17:30	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 17:30	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/17/15 17:30	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/17/15 17:30	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/17/15 17:30	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 17:30	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:30	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 17:30	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/17/15 17:30	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/17/15 17:30	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/17/15 17:30	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/17/15 17:30	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:30	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/17/15 17:30	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/17/15 17:30	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/17/15 17:30	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/17/15 17:30	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070215-SG-044

Date Collected: 07/02/15 10:55

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/17/15 17:30	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/17/15 17:30	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/17/15 17:30	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/17/15 17:30	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:30	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/17/15 17:30	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/17/15 17:30	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/17/15 17:30	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/17/15 17:30	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/17/15 17:30	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/17/15 17:30	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/17/15 17:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/17/15 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		28 - 106	07/08/15 09:12	07/17/15 17:30	1
2-Fluorophenol	67		20 - 108	07/08/15 09:12	07/17/15 17:30	1
2,4,6-Tribromophenol	27		25 - 118	07/08/15 09:12	07/17/15 17:30	1
Nitrobenzene-d5	74		27 - 110	07/08/15 09:12	07/17/15 17:30	1
Phenol-d5	68		23 - 111	07/08/15 09:12	07/17/15 17:30	1
Terphenyl-d14	74		20 - 109	07/08/15 09:12	07/17/15 17:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: WG-9954-070215-SG-045

Date Collected: 07/02/15 12:10

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/18/15 08:45	1
Acenaphthylene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/18/15 08:45	1
Anthracene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzo[a]anthracene	ND		1.9	0.34	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzo[b]fluoranthene	ND		1.9	0.45	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzo[k]fluoranthene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzoic acid	ND		46	15	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzo[g,h,i]perylene	ND		1.9	0.27	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzo[a]pyrene	ND		1.9	0.26	ug/L		07/08/15 09:12	07/18/15 08:45	1
Benzyl alcohol	ND		9.3	1.8	ug/L		07/08/15 09:12	07/18/15 08:45	1
Bis(2-chloroethoxy)methane	ND		9.3	1.2	ug/L		07/08/15 09:12	07/18/15 08:45	1
Bis(2-chloroethyl)ether	ND		9.3	0.29	ug/L		07/08/15 09:12	07/18/15 08:45	1
Bis(2-ethylhexyl) phthalate	ND		19	4.1	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Bromophenyl phenyl ether	ND		9.3	1.1	ug/L		07/08/15 09:12	07/18/15 08:45	1
Butyl benzyl phthalate	ND		9.3	2.0	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Chloroaniline	ND		9.3	2.7	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Chloro-3-methylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Chloronaphthalene	ND		1.9	0.28	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Chlorophenol	ND		9.3	2.1	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Chlorophenyl phenyl ether	ND		9.3	0.74	ug/L		07/08/15 09:12	07/18/15 08:45	1
Chrysene	ND		1.9	0.29	ug/L		07/08/15 09:12	07/18/15 08:45	1
Dibenz(a,h)anthracene	ND		1.9	0.25	ug/L		07/08/15 09:12	07/18/15 08:45	1
Dibenzofuran	ND		9.3	0.89	ug/L		07/08/15 09:12	07/18/15 08:45	1
Di-n-butyl phthalate	ND		9.3	2.2	ug/L		07/08/15 09:12	07/18/15 08:45	1
1,2-Dichlorobenzene	ND		9.3	1.0	ug/L		07/08/15 09:12	07/18/15 08:45	1
1,3-Dichlorobenzene	ND		9.3	0.70	ug/L		07/08/15 09:12	07/18/15 08:45	1
3,3'-Dichlorobenzidine	ND		9.3	1.4	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4-Dichlorophenol	ND		9.3	0.62	ug/L		07/08/15 09:12	07/18/15 08:45	1
Diethyl phthalate	ND		9.3	2.7	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4-Dimethylphenol	ND		9.3	1.6	ug/L		07/08/15 09:12	07/18/15 08:45	1
Dimethyl phthalate	ND		9.3	1.7	ug/L		07/08/15 09:12	07/18/15 08:45	1
4,6-Dinitro-2-methylphenol	ND		46	14	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4-Dinitrophenol	ND		46	23	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4-Dinitrotoluene	ND		9.3	2.0	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,6-Dinitrotoluene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/18/15 08:45	1
Di-n-octyl phthalate	ND		9.3	1.9	ug/L		07/08/15 09:12	07/18/15 08:45	1
Fluoranthene	ND		1.9	0.20	ug/L		07/08/15 09:12	07/18/15 08:45	1
Fluorene	ND		1.9	0.22	ug/L		07/08/15 09:12	07/18/15 08:45	1
Hexachlorobenzene	ND		9.3	0.56	ug/L		07/08/15 09:12	07/18/15 08:45	1
Hexachlorobutadiene	ND		9.3	0.87	ug/L		07/08/15 09:12	07/18/15 08:45	1
Hexachlorocyclopentadiene	ND		9.3	1.3	ug/L		07/08/15 09:12	07/18/15 08:45	1
Hexachloroethane	ND		9.3	1.3	ug/L		07/08/15 09:12	07/18/15 08:45	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.40	ug/L		07/08/15 09:12	07/18/15 08:45	1
Isophorone	ND		9.3	0.68	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Methylnaphthalene	ND		1.9	0.18	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Methylphenol	ND		9.3	1.7	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Methylphenol	ND		9.3	1.9	ug/L		07/08/15 09:12	07/18/15 08:45	1
Naphthalene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Nitroaniline	ND		46	6.2	ug/L		07/08/15 09:12	07/18/15 08:45	1

TestAmerica Pittsburgh

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WG-9954-070215-SG-045

Date Collected: 07/02/15 12:10

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		46	7.5	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Nitroaniline	ND		46	7.2	ug/L		07/08/15 09:12	07/18/15 08:45	1
Nitrobenzene	ND		19	1.4	ug/L		07/08/15 09:12	07/18/15 08:45	1
2-Nitrophenol	ND		9.3	1.0	ug/L		07/08/15 09:12	07/18/15 08:45	1
4-Nitrophenol	ND		46	7.4	ug/L		07/08/15 09:12	07/18/15 08:45	1
N-Nitrosodiphenylamine	ND		9.3	1.1	ug/L		07/08/15 09:12	07/18/15 08:45	1
N-Nitrosodi-n-propylamine	ND		9.3	0.46	ug/L		07/08/15 09:12	07/18/15 08:45	1
Pentachlorophenol	ND		9.3	4.6	ug/L		07/08/15 09:12	07/18/15 08:45	1
Phenanthrene	ND		1.9	0.38	ug/L		07/08/15 09:12	07/18/15 08:45	1
Phenol	ND		9.3	0.51	ug/L		07/08/15 09:12	07/18/15 08:45	1
Pyrene	ND		1.9	0.21	ug/L		07/08/15 09:12	07/18/15 08:45	1
1,2,4-Trichlorobenzene	ND		9.3	0.79	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4,5-Trichlorophenol	ND		9.3	1.1	ug/L		07/08/15 09:12	07/18/15 08:45	1
2,4,6-Trichlorophenol	ND		9.3	2.8	ug/L		07/08/15 09:12	07/18/15 08:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				07/08/15 09:12	07/18/15 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		28 - 106	07/08/15 09:12	07/18/15 08:45	1
2-Fluorophenol	67		20 - 108	07/08/15 09:12	07/18/15 08:45	1
2,4,6-Tribromophenol	60		25 - 118	07/08/15 09:12	07/18/15 08:45	1
Nitrobenzene-d5	73		27 - 110	07/08/15 09:12	07/18/15 08:45	1
Phenol-d5	67		23 - 111	07/08/15 09:12	07/18/15 08:45	1
Terphenyl-d14	83		20 - 109	07/08/15 09:12	07/18/15 08:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: RB-9954-070215-SG-046

Lab Sample ID: 180-45625-2

Date Collected: 07/02/15 12:30

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 12:03	1
alpha-BHC	0.27		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:03	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:03	1
delta-BHC	0.039	J	0.052	0.018	ug/L		07/07/15 11:40	07/20/15 12:03	1
gamma-BHC (Lindane)	0.20		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:03	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:03	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:03	1
4,4'-DDD	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:03	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:03	1
4,4'-DDT	ND		0.052	0.031	ug/L		07/07/15 11:40	07/20/15 12:03	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 12:03	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 12:03	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:03	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 12:03	1
Endrin	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:03	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 12:03	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:03	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:03	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 12:03	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		45 - 130	07/07/15 11:40	07/20/15 12:03	1
Tetrachloro-m-xylene	97		45 - 130	07/07/15 11:40	07/20/15 12:03	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	07/07/15 11:40	07/20/15 12:03	1
DCB Decachlorobiphenyl (Surr)	90		45 - 130	07/07/15 11:40	07/20/15 12:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070215-SG-041

Date Collected: 07/02/15 09:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 12:19	1
alpha-BHC	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:19	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:19	1
delta-BHC	0.022	J p	0.052	0.018	ug/L		07/07/15 11:40	07/20/15 12:19	1
gamma-BHC (Lindane)	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:19	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:19	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:19	1
4,4'-DDD	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:19	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:19	1
4,4'-DDT	ND		0.052	0.031	ug/L		07/07/15 11:40	07/20/15 12:19	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 12:19	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 12:19	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:19	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 12:19	1
Endrin	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:19	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 12:19	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:19	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:19	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 12:19	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		45 - 130	07/07/15 11:40	07/20/15 12:19	1
Tetrachloro-m-xylene	100		45 - 130	07/07/15 11:40	07/20/15 12:19	1
DCB Decachlorobiphenyl (Surr)	86		45 - 130	07/07/15 11:40	07/20/15 12:19	1
DCB Decachlorobiphenyl (Surr)	99		45 - 130	07/07/15 11:40	07/20/15 12:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070215-SG-042

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 12:34	1
alpha-BHC	0.054		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:34	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:34	1
delta-BHC	ND		0.052	0.018	ug/L		07/07/15 11:40	07/20/15 12:34	1
gamma-BHC (Lindane)	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:34	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:34	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:34	1
4,4'-DDD	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:34	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:34	1
4,4'-DDT	ND		0.052	0.031	ug/L		07/07/15 11:40	07/20/15 12:34	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 12:34	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 12:34	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:34	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 12:34	1
Endrin	0.13		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:34	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 12:34	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:34	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:34	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 12:34	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 130	07/07/15 11:40	07/20/15 12:34	1
Tetrachloro-m-xylene	99		45 - 130	07/07/15 11:40	07/20/15 12:34	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	07/07/15 11:40	07/20/15 12:34	1
DCB Decachlorobiphenyl (Surr)	97		45 - 130	07/07/15 11:40	07/20/15 12:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070215-SG-043

Date Collected: 07/02/15 10:00

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 12:50	1
alpha-BHC	0.042	J	0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:50	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:50	1
delta-BHC	ND		0.052	0.018	ug/L		07/07/15 11:40	07/20/15 12:50	1
gamma-BHC (Lindane)	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:50	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:50	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:50	1
4,4'-DDD	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 12:50	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 12:50	1
4,4'-DDT	0.053	p	0.052	0.031	ug/L		07/07/15 11:40	07/20/15 12:50	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 12:50	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 12:50	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:50	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 12:50	1
Endrin	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:50	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 12:50	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 12:50	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 12:50	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 12:50	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		45 - 130	07/07/15 11:40	07/20/15 12:50	1
Tetrachloro-m-xylene	99		45 - 130	07/07/15 11:40	07/20/15 12:50	1
DCB Decachlorobiphenyl (Surr)	89		45 - 130	07/07/15 11:40	07/20/15 12:50	1
DCB Decachlorobiphenyl (Surr)	88		45 - 130	07/07/15 11:40	07/20/15 12:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070215-SG-044

Date Collected: 07/02/15 10:55

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 13:06	1
alpha-BHC	0.087		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 13:06	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:06	1
delta-BHC	0.061		0.052	0.018	ug/L		07/07/15 11:40	07/20/15 13:06	1
gamma-BHC (Lindane)	0.062		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 13:06	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:06	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:06	1
4,4'-DDD	0.033	J p	0.052	0.028	ug/L		07/07/15 11:40	07/20/15 13:06	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 13:06	1
4,4'-DDT	0.070		0.052	0.031	ug/L		07/07/15 11:40	07/20/15 13:06	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 13:06	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 13:06	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:06	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 13:06	1
Endrin	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:06	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 13:06	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:06	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:06	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 13:06	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91	p	45 - 130	07/07/15 11:40	07/20/15 13:06	1
Tetrachloro-m-xylene	146	X	45 - 130	07/07/15 11:40	07/20/15 13:06	1
DCB Decachlorobiphenyl (Surr)	101		45 - 130	07/07/15 11:40	07/20/15 13:06	1
DCB Decachlorobiphenyl (Surr)	106		45 - 130	07/07/15 11:40	07/20/15 13:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: WG-9954-070215-SG-045

Date Collected: 07/02/15 12:10

Date Received: 07/03/15 09:40

Lab Sample ID: 180-45625-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.052	0.035	ug/L		07/07/15 11:40	07/20/15 13:21	1
alpha-BHC	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 13:21	1
beta-BHC	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:21	1
delta-BHC	ND		0.052	0.018	ug/L		07/07/15 11:40	07/20/15 13:21	1
gamma-BHC (Lindane)	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 13:21	1
alpha-Chlordane	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:21	1
gamma-Chlordane	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:21	1
4,4'-DDD	ND		0.052	0.028	ug/L		07/07/15 11:40	07/20/15 13:21	1
4,4'-DDE	ND		0.052	0.033	ug/L		07/07/15 11:40	07/20/15 13:21	1
4,4'-DDT	ND		0.052	0.031	ug/L		07/07/15 11:40	07/20/15 13:21	1
Dieldrin	ND		0.052	0.034	ug/L		07/07/15 11:40	07/20/15 13:21	1
Endosulfan I	ND		0.052	0.039	ug/L		07/07/15 11:40	07/20/15 13:21	1
Endosulfan II	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:21	1
Endosulfan sulfate	ND		0.052	0.024	ug/L		07/07/15 11:40	07/20/15 13:21	1
Endrin	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:21	1
Endrin ketone	ND		0.052	0.038	ug/L		07/07/15 11:40	07/20/15 13:21	1
Heptachlor	ND		0.052	0.041	ug/L		07/07/15 11:40	07/20/15 13:21	1
Heptachlor epoxide	ND		0.052	0.040	ug/L		07/07/15 11:40	07/20/15 13:21	1
Methoxychlor	ND		0.10	0.038	ug/L		07/07/15 11:40	07/20/15 13:21	1
Toxaphene	ND		4.2	0.78	ug/L		07/07/15 11:40	07/20/15 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		45 - 130	07/07/15 11:40	07/20/15 13:21	1
Tetrachloro-m-xylene	98		45 - 130	07/07/15 11:40	07/20/15 13:21	1
DCB Decachlorobiphenyl (Surr)	97		45 - 130	07/07/15 11:40	07/20/15 13:21	1
DCB Decachlorobiphenyl (Surr)	101		45 - 130	07/07/15 11:40	07/20/15 13:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: RB-9954-070215-SG-046

Lab Sample ID: 180-45625-2

Date Collected: 07/02/15 12:30

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 14:07	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	83		35 - 140	07/07/15 11:40	07/08/15 14:07	1
Tetrachloro-m-xylene (Surr)	89		35 - 140	07/07/15 11:40	07/08/15 14:07	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/07/15 11:40	07/08/15 14:07	1
DCB Decachlorobiphenyl (Surr)	96		35 - 140	07/07/15 11:40	07/08/15 14:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070215-SG-041

Lab Sample ID: 180-45625-3

Date Collected: 07/02/15 09:00

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 14:25	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	277	X	35 - 140	07/07/15 11:40	07/08/15 14:25	1
Tetrachloro-m-xylene (Surr)	161	p X	35 - 140	07/07/15 11:40	07/08/15 14:25	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/07/15 11:40	07/08/15 14:25	1
DCB Decachlorobiphenyl (Surr)	98		35 - 140	07/07/15 11:40	07/08/15 14:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070215-SG-042

Lab Sample ID: 180-45625-4

Date Collected: 07/02/15 10:00

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 14:44	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	115		35 - 140	07/07/15 11:40	07/08/15 14:44	1
Tetrachloro-m-xylene (Surr)	117		35 - 140	07/07/15 11:40	07/08/15 14:44	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/07/15 11:40	07/08/15 14:44	1
DCB Decachlorobiphenyl (Surr)	93		35 - 140	07/07/15 11:40	07/08/15 14:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070215-SG-043

Lab Sample ID: 180-45625-5

Date Collected: 07/02/15 10:00

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 15:03	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	190	X	35 - 140	07/07/15 11:40	07/08/15 15:03	1
Tetrachloro-m-xylene (Surr)	79	p	35 - 140	07/07/15 11:40	07/08/15 15:03	1
DCB Decachlorobiphenyl (Surr)	92		35 - 140	07/07/15 11:40	07/08/15 15:03	1
DCB Decachlorobiphenyl (Surr)	94		35 - 140	07/07/15 11:40	07/08/15 15:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070215-SG-044

Lab Sample ID: 180-45625-6

Date Collected: 07/02/15 10:55

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 15:22	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	95		35 - 140	07/07/15 11:40	07/08/15 15:22	1
Tetrachloro-m-xylene (Surr)	110		35 - 140	07/07/15 11:40	07/08/15 15:22	1
DCB Decachlorobiphenyl (Surr)	99		35 - 140	07/07/15 11:40	07/08/15 15:22	1
DCB Decachlorobiphenyl (Surr)	99		35 - 140	07/07/15 11:40	07/08/15 15:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 9954, Love Canal Annual

TestAmerica Job ID: 180-45625-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WG-9954-070215-SG-045

Lab Sample ID: 180-45625-7

Date Collected: 07/02/15 12:10

Matrix: Water

Date Received: 07/03/15 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1221	ND		0.42	0.17	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1232	ND		0.42	0.16	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1242	ND		0.42	0.077	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1248	ND		0.42	0.11	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1254	ND		0.42	0.13	ug/L		07/07/15 11:40	07/08/15 15:40	1
PCB-1260	ND		0.42	0.071	ug/L		07/07/15 11:40	07/08/15 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	99		35 - 140	07/07/15 11:40	07/08/15 15:40	1
Tetrachloro-m-xylene (Surr)	104		35 - 140	07/07/15 11:40	07/08/15 15:40	1
DCB Decachlorobiphenyl (Surr)	95		35 - 140	07/07/15 11:40	07/08/15 15:40	1
DCB Decachlorobiphenyl (Surr)	99		35 - 140	07/07/15 11:40	07/08/15 15:40	1

EVENT COMPLETE

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: TEST AMERICA PITTSBURGH	
Laboratory Location: 301 ALPHA DRIVE PITTSBURGH, PA 15238	
Laboratory Contact: JILL COLUSSY	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-08-1	
SSOW Ref#:	
Sampler Name: SHAWN GARDNER	

Valid Matrix Code
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N



180-45625 Chain of Custody

Sample Identification

Sample Identification	Matrix Code	Date Collected	Time Collected	Pest/PCBs(None)	SVOC(none)	VOA(HCI)	Remarks
LCTRIIP-070215-SG	WG Q	07/02/2015	00:00	4	0	3	
RB-9954-070215-SG-046	WG Q	07/02/2015	12:30	4	2	3	
WG-9954-070215-SG-041	WG	07/02/2015	09:00	4	2	3	
WG-9954-070215-SG-042	WG	07/02/2015	10:00	4	2	3	
WG-9954-070215-SG-043	WG	07/02/2015	10:00	4	2	3	
WG-9954-070215-SG-044	WG	07/02/2015	10:55	4	2	3	
WG-9954-070215-SG-045	WG	07/02/2015	12:10	4	2	3	
Total Bottles				28	12	21	Grand Total:61

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	7/2/15	1400	Deliver Watson	7-3-15	
AIRBILL#:					TAP		9:40

Appendix F
Analytical Results and QA/QC Review
Long-Term Monitoring Program
Love Canal
June through July 2015



Memorandum

To: Joe Branch Ref. No.: 009954

From: Kathy Willy/km/40 *KW* Date: September 11, 2015

CC: John Pentilchuk, Dennis Hoyt

Re: **Analytical Results and Full Validation
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2015**

1. Introduction

This document details a validation of analytical results for groundwater samples collected in support of the Annual Long Term Monitoring program at the Love Canal Site during June and July 2015. Samples were submitted to TestAmerica Laboratories, located in Pittsburgh, Pennsylvania. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples. The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "Quality Assurance Project Plan", Appendix B of "Sampling Manual Long-Term Groundwater Monitoring Program", June 2013 and,
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-08-01, June 2008

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

- i) All relative response factors (RRFs) must be greater than or equal to 0.05 (0.01 for poor responders)
- ii) The percent relative standard deviation (RSD) values must not exceed 20.0 percent (40 percent for poor responders) or a minimum correlation coefficient (R) of 0.995 and minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves, respectively, are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are

used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest and for polychlorinated biphenyls (PCBs) (Aroclors 1016 and 1260). A single calibration standard is analyzed for all other multi-response compounds. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the correlation coefficient (R) is 0.995 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

5. Continuing Calibration - Organic Analyses

5.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) All RRF values must be greater than or equal to 0.05 (0.01 for poor responders)
- ii) Percent difference (%D) values must not exceed 25 percent (40 percent for poor responders)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of acetone and vinyl acetate which showed some variability. A summary of qualified results is presented in Table 4.

5.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

7. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC, SVOC, Pesticide and PCB determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the laboratory criteria.

8. Laboratory Control Sample Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

9. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the distillation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the following exceptions:

- i) Some low SVOC recoveries were recorded. Sample results were qualified as estimated to reflect the implied low bias.
- ii) Benzoic acid was not recovered in one MS/MSD pair. The sample result was rejected due to the poor analytical efficiency.

A summary of qualified results is presented in Table 5.

10. Field QA/QC Samples

The field QA/QC consisted of eight trip blank samples, two rinse blank samples, and four field duplicate sample sets.

10.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, eight trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

10.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, two rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of a low concentration of some pesticides. Associated sample results with concentrations similar to that found in the rinse blank were qualified as non-detect. A summary of qualified results is presented in Table 6.

10.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, four field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 and 100 percent for water and soil samples, respectively. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one or two times the RL value for water and soil samples, respectively.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

11. Tentatively Identified Compounds (TICs)

Chromatographic peaks recorded during VOC and SVOC sample GC/MS analyses that are not target compounds, surrogates, or internal standards, are potential TICs.

A summary of the TICs reported by the laboratory is presented in Table 7. Per the "Guidelines", TICs that were present in the method blanks or identified as solvent preservatives/aldol reaction products were rejected and are not included in the table.

12. Dual Column Analysis

Pesticide analyses were performed using dual column analyses. In general, the pesticide results showed good correlation between the two columns. Variability was observed between some of the results. Sample results that were >40 percent but <100 percent difference between the primary and secondary columns were qualified as estimated. Sample results that were >100 percent difference between the primary and secondary columns were rejected. A summary of qualified results is presented in Table 8.

13. Analyte Reporting

The laboratory reported detected results down to the laboratory's MDL for each analyte. Positive analyte detections less than the PQL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

14. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

15. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					Pesticide	PCB	TCL - VOC	TCL - SVOC	
WG-9954-070115-SG-038	3257	Groundwater	07/01/2015	11:00:00	x	x	x	x	
WG-9954-070115-SG-040	5221	Groundwater	07/01/2015	13:40:00	x	x	x	x	
WG-9954-070215-SG-044	6209	Groundwater	07/02/2015	12:10:00	x	x	x	x	
WG-9954-061715-DJT-001	7120	Groundwater	06/17/2015	13:15:00	x	x	x	x	
WG-9954-061715-DJT-003	7130	Groundwater	06/17/2015	14:15:00	x	x	x	x	
WG-9954-061715-DJT-002	7132	Groundwater	06/17/2015	13:45:00	x	x	x	x	
WG-9954-062215-DJT-004	7155	Groundwater	06/22/2015	12:20:00	x	x	x	x	
WG-9954-062215-DJT-005	7161	Groundwater	06/22/2015	13:05:00	x	x	x	x	
WG-9954-062515-SG-027	7205	Groundwater	06/25/2015	15:00:00	x	x	x	x	
WG-9954-062515-SG-020	8106	Groundwater	06/25/2015	12:10:00	x	x	x	x	
WG-9954-062215-DJT-006	8110	Groundwater	06/22/2015	13:40:00	x	x	x	x	
WG-9954-062215-DJT-007	8120	Groundwater	06/22/2015	14:25:00	x	x	x	x	
WG-9954-062215-DJT-008	8130	Groundwater	06/22/2015	14:25:00	x	x	x	x	
WG-9954-062215-DJT-009	8140	Groundwater	06/22/2015	15:15:00	x	x	x	x	
WG-9954-062615-SG-028	8210	Groundwater	06/26/2015	10:50:00	x	x	x	x	
WG-9954-062415-SG-014	9110	Groundwater	06/24/2015	14:00:00	x	x	x	x	
WG-9954-062315-SG-014	9115	Groundwater	06/23/2015	14:25:00	x	x	x	x	
WG-9954-062315-SG-012	9120	Groundwater	06/23/2015	12:25:00	x	x	x	x	
WG-9954-062315-SG-013	9125	Groundwater	06/23/2015	13:45:00	x	x	x	x	
WG-9954-062315-SG-010	9130	Groundwater	06/23/2015	11:25:00	x	x	x	x	MS/MSD
WG-9954-062315-SG-011	9130	Groundwater	06/23/2015	11:25:00	x	x	x	x	Field duplicate of sample WG-9954-062315-SG-010
WG-9954-062415-SG-015	9140	Groundwater	06/24/2015	15:10:00	x	x	x	x	
WG-9954-062615-SG-028	9205	Groundwater	06/26/2015	09:45:00	x	x	x	x	
WG-9954-062615-SG-030	9210	Groundwater	06/26/2015	12:45:00	x	x	x	x	MS/MSD
WG-9954-062615-SG-031	9210	Groundwater	06/26/2015	12:45:00	x	x	x	x	Field duplicate of sample WG-9954-062615-SG-030
WG-9954-062515-SG-017	10105	Groundwater	06/25/2015	11:00:00	x	x	x	x	
WG-9954-062515-SG-023	10135	Groundwater	06/25/2015	14:20:00	x	x	x	x	
WG-9954-062515-SG-022	10147	Groundwater	06/25/2015	13:35:00	x	x	x	x	
WG-9954-062515-SG-021	10174A	Groundwater	06/25/2015	12:35:00	x	x	x	x	
WG-9954-062615-SG-035	10205	Groundwater	06/26/2015	14:10:00	x	x	x	x	
WG-9954-062615-SG-032	10210A	Groundwater	06/26/2015	13:15:00	x	x	x	x	
WG-9954-070215-SG-041	10210B	Groundwater	07/02/2015	09:00:00	x	x	x	x	
WG-9954-070215-SG-042	10210C	Groundwater	07/02/2015	10:00:00	x	x	x	x	MS/MSD

Table 1

Sample Collection and Analysis Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					Pesticide	PCB	TCL - VOC	TCL - SVOC	
WG-9954-070215-SG-043	10210C	Groundwater	07/02/2015	10:00:00	x	x	x	x	Field duplicate of sample WG-9954-070215-SG-042
WG-9954-070215-SG-044	10215	Groundwater	07/02/2015	10:55:00	x	x	x	x	
WG-9954-062615-SG-033	10225A	Groundwater	06/26/2015	14:00:00	x	x	x	x	MS/MSD Field duplicate of sample WG-9954-062415-SG-018
WG-9954-062615-SG-034	10225B	Groundwater	06/26/2015	14:30:00	x	x	x	x	
WG-9954-062415-SG-018	10225C	Groundwater	06/24/2015	14:45:00	x	x	x	x	
WG-9954-062415-SG-019	10225C	Groundwater	06/24/2015	14:45:00	x	x	x	x	
WG-9954-062515-SG-024	10270	Groundwater	06/25/2015	12:10:00	x	x	x	x	
WG-9954-062515-SG-025	10272	Groundwater	06/25/2015	13:30:00	x	x	x	x	
WG-9954-070115-SG-039	10278	Groundwater	07/01/2015	12:35:00	x	x	x	x	
WG-9954-070115-SG-037	MW-01	Groundwater	07/01/2015	10:05:00	x	x	x	x	
WG-9954-070115-SG-036	MW-02	Groundwater	07/01/2015	09:15:00	x	x	x	x	
RB-9954-062515-SG-025	-	Water	06/25/2015	14:20:00	x	x	x	x	Rinse Blank
RB-9954-070215-SG-045	-	Water	07/02/2015	12:30:00	x	x	x	x	Rinse Blank
LCTRIP-061714	-	Water	06/17/2015	-			x		Trip Blank
LCTRIP-062215-DJT	-	Water	06/22/2015	-			x		Trip Blank
LCTRIP-062314	-	Water	06/23/2015	-			x		Trip Blank
LCTRIP-062415-SG	-	Water	06/24/2015	-			x		Trip Blank
LCTRIP-062515-SG	-	Water	06/25/2015	-			x		Trip Blank
LCTRIP-062615-SG	-	Water	06/26/2015	-			x		Trip Blank
LCTRIP-070115-SG	-	Water	07/01/2015	-			x		Trip Blank
LCTRIP-070215-SG	-	Water	07/02/2015	-			x		Trip Blank

Notes:

- DUP - Laboratory Duplicate
- FD - Field duplicate sample of sample in parenthesis
- PCB - Polychlorinated Biphenyls
- TCL - VOC - Target Compound List - Volatile Organic Compound
- TCL - SVOCs - Target Compound List - Semi-volatile Organic Compounds
- - Not applicable
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- MS/MSD-P - Matrix Spike/Matrix Spike Duplicate (Partial parameters)

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		3257	5221	6209	7120
		WG-9954-070115-SG-038	WG-9954-070115-SG-040	WG-9954-070215-SG-045	WG-9954-061715-DJT-001
		07/01/2015	07/01/2015	07/02/2015	06/17/2015
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	2.2 J	1.5 J	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	0.95 J	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:	3257	5221	6209	7120
Sample ID:	WG-9954-070115-SG-038	WG-9954-070115-SG-040	WG-9954-070215-SG-045	WG-9954-061715-DJT-001
Sample Date:	07/01/2015	07/01/2015	07/02/2015	06/17/2015
Parameters	Units			
Volatile Organic Compounds (Continued)				
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U
Semi-volatile Organic Compounds				
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.6 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.6 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.6 U
2,4-Dinitrophenol	µg/L	46 U	46 U	48 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.6 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.6 U
2-Nitroaniline	µg/L	46 U	46 U	48 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.6 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.6 U
3-Nitroaniline	µg/L	46 U	46 U	48 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	48 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.6 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.6 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.6 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		3257	5221	6209	7120
		Sample ID: WG-9954-070115-SG-038	Sample ID: WG-9954-070115-SG-040	Sample ID: WG-9954-070215-SG-045	Sample ID: WG-9954-061715-DJT-001
		Sample Date: 07/01/2015	Sample Date: 07/01/2015	Sample Date: 07/02/2015	Sample Date: 06/17/2015
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	48 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	48 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	48 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		3257	5221	6209	7120
		Sample ID: WG-9954-070115-SG-038	Sample ID: WG-9954-070115-SG-040	Sample ID: WG-9954-070215-SG-045	Sample ID: WG-9954-061715-DJT-001
		Sample Date: 07/01/2015	Sample Date: 07/01/2015	Sample Date: 07/02/2015	Sample Date: 06/17/2015
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.21 U	0.20 U	0.42 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.026 U	0.022 J	0.052 U	0.050 U
4,4'-DDE	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
4,4'-DDT	µg/L	0.017 J	0.025 U	0.052 U	0.050 U
Aldrin	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
alpha-BHC	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
alpha-Chlordane	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
beta-BHC	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
delta-BHC	µg/L	0.035	0.032 J	0.052 U	0.050 U
Dieldrin	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
Endosulfan I	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
Endosulfan II	µg/L	0.026 U	0.025 U	0.052 U	0.050 U
Endosulfan sulfate	µg/L	0.026 U	0.014 NJ	0.052 U	0.050 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	3257	5221	6209	7120
		Sample ID:	WG-9954-070115-SG-038	WG-9954-070115-SG-040	WG-9954-070215-SG-045	WG-9954-061715-DJT-001
		Sample Date:	07/01/2015	07/01/2015	07/02/2015	06/17/2015
Pesticides (Continued)						
Endrin	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
Endrin ketone	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
gamma-BHC (lindane)	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
gamma-Chlordane	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
Heptachlor	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
Heptachlor epoxide	µg/L		0.026 U	0.025 U	0.052 U	0.050 U
Methoxychlor	µg/L		0.052 U	0.028 J	0.10 U	0.10 U
Toxaphene	µg/L		2.1 U	2.0 U	4.2 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		7130	7132	7155	7161
Sample ID:		WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005
Sample Date:		06/17/2015	06/17/2015	06/22/2015	06/22/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		7130	7132	7155	7161
Sample ID:		WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005
Sample Date:		06/17/2015	06/17/2015	06/22/2015	06/22/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		7130	7132	7155	7161
Sample ID:		WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005
Sample Date:		06/17/2015	06/17/2015	06/22/2015	06/22/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	8.5 J	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		7130	7132	7155	7161
Sample ID:		WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005
Sample Date:		06/17/2015	06/17/2015	06/22/2015	06/22/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	0.050 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location: Sample ID: Sample Date:			
		7130	7132	7155	7161
		WG-9954-061715-DJT-003	WG-9954-061715-DJT-002	WG-9954-062215-DJT-004	WG-9954-062215-DJT-005
		06/17/2015	06/17/2015	06/22/2015	06/22/2015
Pesticides (Continued)					
Endrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	4.0 U	4.0 U	4.0 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	7205	8106	8110	8120
		Sample ID:	WG-9954-062515-SG-027	WG-9954-062515-SG-020	WG-9954-062215-DJT-006	WG-9954-062215-DJT-007
		Sample Date:	06/25/2015	06/25/2015	06/22/2015	06/22/2015
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	µg/L	20 U	20 U	20 U	20 U	
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	

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Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		7205	8106	8110	8120
Sample ID:		WG-9954-062515-SG-027	WG-9954-062515-SG-020	WG-9954-062215-DJT-006	WG-9954-062215-DJT-007
Sample Date:		06/25/2015	06/25/2015	06/22/2015	06/22/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	10 U	9.6 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	10 U	9.6 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	10 U	9.6 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,4-Dinitrophenol	µg/L	46 U	46 U	50 U	48 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	10 U	9.6 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	10 U	9.6 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
2-Nitroaniline	µg/L	46 U	46 U	50 U	48 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	10 U	9.6 U
3-Nitroaniline	µg/L	46 U	46 U	50 U	48 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	50 U	48 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	10 U	9.6 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	10 U	9.6 U

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Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		7205	8106	8110	8120
		WG-9954-062515-SG-027 06/25/2015	WG-9954-062515-SG-020 06/25/2015	WG-9954-062215-DJT-006 06/22/2015	WG-9954-062215-DJT-007 06/22/2015
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	10 U	9.6 U
4-Methylphenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
4-Nitroaniline	µg/L	46 U	46 U	50 U	48 U
4-Nitrophenol	µg/L	46 U	46 U	50 U	48 U
Acenaphthene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	50 U	48 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	10 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	10 U	9.6 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	10 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	7.9 J	20 U	5.7 J
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	10 U	9.6 U
Chrysene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	10 U	9.6 U
Diethyl phthalate	µg/L	2.7 J	9.3 U	10 U	9.6 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	10 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	10 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	10 U	9.6 U
Fluoranthene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	10 U	9.6 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	10 U	9.6 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	10 U	9.6 U
Hexachloroethane	µg/L	9.3 U	9.3 U	10 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U

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Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		7205	8106	8110	8120
		Sample ID: WG-9954-062515-SG-027	Sample ID: WG-9954-062515-SG-020	Sample ID: WG-9954-062215-DJT-006	Sample ID: WG-9954-062215-DJT-007
		Sample Date: 06/25/2015	Sample Date: 06/25/2015	Sample Date: 06/22/2015	Sample Date: 06/22/2015
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	10 U	9.6 U
Naphthalene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	20 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	10 U	9.6 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	10 U	9.6 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
Phenanthrene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	10 U	9.6 U
Pyrene	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.30	0.050 U	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.14	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	0.050 U

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Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	7205	8106	8110	8120
		Sample ID:	WG-9954-062515-SG-027	WG-9954-062515-SG-020	WG-9954-062215-DJT-006	WG-9954-062215-DJT-007
		Sample Date:	06/25/2015	06/25/2015	06/22/2015	06/22/2015
Pesticides (Continued)						
Endrin	µg/L		0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L		0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L		0.26	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L		0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L		0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L		0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L		0.039 J	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L		4.0 U	4.0 U	4.0 U	4.0 U

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Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		8130	8140	8210	9110
Sample ID:		WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062615-SG-029	WG-9954-062415-SG-015
Sample Date:		06/22/2015	06/22/2015	06/26/2015	06/24/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	1.2 J	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

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Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		8130	8140	8210	9110
Sample ID:		WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062615-SG-029	WG-9954-062415-SG-015
Sample Date:		06/22/2015	06/22/2015	06/26/2015	06/24/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	48 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	48 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	48 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	48 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.6 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:			
		8130	8140	8210	9110
		WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062615-SG-029	WG-9954-062415-SG-015
		06/22/2015	06/22/2015	06/26/2015	06/24/2015
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	48 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	48 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	48 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	2.1 J	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		8130	8140	8210	9110
Sample ID:		WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062615-SG-029	WG-9954-062415-SG-015
Sample Date:		06/22/2015	06/22/2015	06/26/2015	06/24/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.6 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.21 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.025 J	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.072 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	R	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	R	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.026 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.026 U	0.050 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	8130	8140	8210	9110
		Sample ID:	WG-9954-062215-DJT-008	WG-9954-062215-DJT-009	WG-9954-062615-SG-029	WG-9954-062415-SG-015
		Sample Date:	06/22/2015	06/22/2015	06/26/2015	06/24/2015
Pesticides (Continued)						
Endrin	µg/L		0.050 U	0.050 U	0.026 U	0.050 U
Endrin ketone	µg/L		0.050 U	0.050 U	0.026 U	0.050 U
gamma-BHC (lindane)	µg/L		0.050 U	0.050 U	0.056 U	0.050 U
gamma-Chlordane	µg/L		0.050 U	0.050 U	0.026 U	0.050 U
Heptachlor	µg/L		0.050 U	0.050 U	0.026 U	0.050 U
Heptachlor epoxide	µg/L		0.050 U	0.050 U	0.026 U	0.050 U
Methoxychlor	µg/L		0.10 U	0.10 U	0.051 J	0.10 U
Toxaphene	µg/L		4.0 U	4.0 U	2.1 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9115	9120	9125	9130
Sample ID:		WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010
Sample Date:		06/23/2015	06/23/2015	06/23/2015	06/23/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1- Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2- Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2- Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9115	9120	9125	9130
Sample ID:		WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010
Sample Date:		06/23/2015	06/23/2015	06/23/2015	06/23/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9115	9120	9125	9130
Sample ID:		WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010
Sample Date:		06/23/2015	06/23/2015	06/23/2015	06/23/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.8 J	19 U	4.2 J	7.5 J
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9115	9120	9125	9130
Sample ID:		WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010
Sample Date:		06/23/2015	06/23/2015	06/23/2015	06/23/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	0.050 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Sample Location:				
	Sample ID:				
	Sample Date:				
	9115	9120	9125	9130	
	WG-9954-062315-SG-014	WG-9954-062315-SG-012	WG-9954-062315-SG-013	WG-9954-062315-SG-010	
	06/23/2015	06/23/2015	06/23/2015	06/23/2015	
Units					
Pesticides (Continued)					
Endrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	4.0 U	4.0 U	4.0 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9130	9140	9205	9210
Sample ID:		WG-9954-062315-SG-011	WG-9954-062415-SG-016	WG-9954-062615-SG-028	WG-9954-062615-SG-030
Sample Date:		06/23/2015	06/24/2015	06/26/2015	06/26/2015
		(Duplicate)			
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 UJ	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	1.9 J	1.2 J	1.2 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9130	9140	9205	9210
Sample ID:		WG-9954-062315-SG-011	WG-9954-062415-SG-016	WG-9954-062615-SG-028	WG-9954-062615-SG-030
Sample Date:		06/23/2015 (Duplicate)	06/24/2015	06/26/2015	06/26/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9130	9140	9205	9210
Sample ID:		WG-9954-062315-SG-011	WG-9954-062415-SG-016	WG-9954-062615-SG-028	WG-9954-062615-SG-030
Sample Date:		06/23/2015	06/24/2015	06/26/2015	06/26/2015
		(Duplicate)			
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9130	9140	9205	9210
Sample ID:		WG-9954-062315-SG-011	WG-9954-062415-SG-016	WG-9954-062615-SG-028	WG-9954-062615-SG-030
Sample Date:		06/23/2015 (Duplicate)	06/24/2015	06/26/2015	06/26/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.40 U	0.20 U	0.21 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.025 U	0.057
Aldrin	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.090 U	0.035 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
beta-BHC	µg/L	0.050 U	0.050 U	R	R
delta-BHC	µg/L	0.050 U	0.050 U	0.090	R
Dieldrin	µg/L	0.050 U	0.050 U	0.061	0.032 J
Endosulfan I	µg/L	0.050 U	0.050 U	0.025 U	R
Endosulfan II	µg/L	0.050 U	0.050 U	0.025 U	R
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.025 U	0.077

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Sample Location:				
	Sample ID:				
	Sample Date:				
	Units				
		9130	9140	9205	9210
		WG-9954-062315-SG-011	WG-9954-062415-SG-016	WG-9954-062615-SG-028	WG-9954-062615-SG-030
		06/23/2015	06/24/2015	06/26/2015	06/26/2015
		(Duplicate)			
Pesticides (Continued)					
Endrin	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.071 U	0.026 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
Heptachlor	µg/L	0.050 U	0.050 U	0.025 U	0.026 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.028	0.026 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.024 J	0.074
Toxaphene	µg/L	4.0 U	4.0 U	2.0 U	2.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	9210	10105	10135	10147
		Sample ID:	WG-9954-062615-SG-031	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022
		Sample Date:	06/26/2015	06/25/2015	06/25/2015	06/25/2015
			(Duplicate)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,1,2-Trichloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,1-Dichloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,1-Dichloroethene	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,2-Dichloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
1,2-Dichloropropane	µg/L		5.0 U	5.0 U	500 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L		5.0 U	5.0 U	500 U	5.0 U
2-Hexanone	µg/L		5.0 U	5.0 U	500 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L		5.0 U	5.0 U	500 U	5.0 U
Acetone	µg/L		20 U	20 U	2000 U	20 U
Benzene	µg/L		5.0 U	5.0 U	6200	5.0 U
Bromodichloromethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
Bromoform	µg/L		5.0 U	5.0 U	500 U	5.0 U
Bromomethane (Methyl bromide)	µg/L		5.0 U	5.0 U	500 U	5.0 U
Carbon disulfide	µg/L		1.4 J	5.0 U	500 U	5.0 U
Carbon tetrachloride	µg/L		5.0 U	5.0 U	500 U	5.0 U
Chlorobenzene	µg/L		5.0 U	5.0 U	2600	5.0 U
Chloroethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
Chloroform (Trichloromethane)	µg/L		5.0 U	5.0 U	180 J	5.0 U
Chloromethane (Methyl chloride)	µg/L		5.0 U	5.0 U	500 U	5.0 U
cis-1,2-Dichloroethene	µg/L		5.0 U	5.0 U	500 U	5.0 U
cis-1,3-Dichloropropene	µg/L		5.0 U	5.0 U	500 U	5.0 U
Dibromochloromethane	µg/L		5.0 U	5.0 U	500 U	5.0 U
Ethylbenzene	µg/L		5.0 U	5.0 U	500 U	5.0 U
Methylene chloride	µg/L		5.0 U	5.0 U	150 J	5.0 U
Styrene	µg/L		5.0 U	5.0 U	500 U	5.0 U
Tetrachloroethene	µg/L		5.0 U	5.0 U	500 U	5.0 U
Toluene	µg/L		5.0 U	5.0 U	20000	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9210	10105	10135	10147
Sample ID:		WG-9954-062615-SG-031	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022
Sample Date:		06/26/2015 (Duplicate)	06/25/2015	06/25/2015	06/25/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	500 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	500 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	110 J	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	500 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	500 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	1000 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	47 J	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	140 J	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	230 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	790	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	1200 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	230 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	230 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	44 J	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	230 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	1200 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	230 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	230 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9210	10105	10135	10147
Sample ID:		WG-9954-062615-SG-031	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022
Sample Date:		06/26/2015	06/25/2015	06/25/2015	06/25/2015
		(Duplicate)			
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	230 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	93 J	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	1200 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	1200 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	16000	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	250	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	230 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	27 J	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	8.0 J	460 U	8.3 J
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	230 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	230 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	230 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	230 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	230 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	230 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	230 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	230 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	230 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	230 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		9210	10105	10135	10147
Sample ID:		WG-9954-062615-SG-031	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022
Sample Date:		06/26/2015 (Duplicate)	06/25/2015	06/25/2015	06/25/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	230 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	460 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	230 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	230 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	230 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	46 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	87 J	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	46 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.21 U	0.40 U	0.40 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.026 U	0.050 U	R	0.045 J
4,4'-DDE	µg/L	0.026 U	0.050 U	R	0.050 U
4,4'-DDT	µg/L	0.029 J	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.026 U	0.050 U	R	0.050 U
alpha-BHC	µg/L	0.037 U	0.050 U	20	0.050 U
alpha-Chlordane	µg/L	0.026 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	0.026 U	0.050 U	4.7	0.050 U
delta-BHC	µg/L	0.026 U	0.050 U	7.4	0.050 U
Dieldrin	µg/L	0.019 J	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	0.026 U	0.050 U	R	0.050 U
Endosulfan II	µg/L	0.026 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	0.039	0.050 U	0.035 J	0.050 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Sample Location:	9210	10105	10135	10147
	Sample ID:	WG-9954-062615-SG-031	WG-9954-062515-SG-017	WG-9954-062515-SG-023	WG-9954-062515-SG-022
	Sample Date:	06/26/2015	06/25/2015	06/25/2015	06/25/2015
		(Duplicate)			
Units					
Pesticides (Continued)					
Endrin	µg/L	0.026 U	0.050 U	1.4	0.050 U
Endrin ketone	µg/L	0.026 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.041 U	0.050 U	3.2	0.050 U
gamma-Chlordane	µg/L	0.026 U	0.050 U	1.1 J	0.050 U
Heptachlor	µg/L	0.026 U	0.050 U	R	0.050 U
Heptachlor epoxide	µg/L	0.026 U	0.050 U	R	0.050 U
Methoxychlor	µg/L	0.11	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	2.1 U	4.0 U	4.0 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10174A	10205	10210A	10210B
Sample ID:		WG-9954-062515-SG-021	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041
Sample Date:		06/25/2015	06/26/2015	06/26/2015	07/02/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 UJ	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	2.9 J	7.9
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10174A	10205	10210A	10210B
Sample ID:		WG-9954-062515-SG-021	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041
Sample Date:		06/25/2015	06/26/2015	06/26/2015	07/02/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	10174A	10205	10210A	10210B
		Sample ID:	WG-9954-062515-SG-021	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041
		Sample Date:	06/25/2015	06/26/2015	06/26/2015	07/02/2015
Semi-volatile Organic Compounds (Continued)						
4-Chlorophenyl phenyl ether	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L		46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L		46 U	46 U	46 U	46 U
Acenaphthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L		46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L		19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L		9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10174A	10205	10210A	10210B
Sample ID:		WG-9954-062515-SG-021	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041
Sample Date:		06/25/2015	06/26/2015	06/26/2015	07/02/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	0.41 J	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.20 U	0.20 U	0.42 U
Pesticides					
4,4'-DDD	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
4,4'-DDE	µg/L	0.050 U	0.017 J	0.023 NJ	0.052 U
4,4'-DDT	µg/L	0.050 U	0.037 J	0.078 J	0.052 U
Aldrin	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
alpha-BHC	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
alpha-Chlordane	µg/L	0.050 U	0.025 U	0.030	0.052 U
beta-BHC	µg/L	0.050 U	R	0.025 U	0.052 U
delta-BHC	µg/L	0.050 U	0.10 NJ	R	0.052 U
Dieldrin	µg/L	0.050 U	0.022 J	0.025 U	0.052 U
Endosulfan I	µg/L	0.050 U	0.025 U	R	0.052 U
Endosulfan II	µg/L	0.050 U	0.037 NJ	R	0.052 U
Endosulfan sulfate	µg/L	0.050 U	R	R	0.052 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Sample Location:				
	Sample ID:				
	Sample Date:				
	10174A	10205	10210A	10210B	
	WG-9954-062515-SG-021	WG-9954-062615-SG-035	WG-9954-062615-SG-032	WG-9954-070215-SG-041	
	06/25/2015	06/26/2015	06/26/2015	07/02/2015	
Units					
Pesticides (Continued)					
Endrin	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
Endrin ketone	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
gamma-BHC (lindane)	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
gamma-Chlordane	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
Heptachlor	µg/L	0.050 U	0.025 U	0.025 U	0.052 U
Heptachlor epoxide	µg/L	0.050 U	0.025 U	R	0.052 U
Methoxychlor	µg/L	0.10 U	R	R	0.10 U
Toxaphene	µg/L	4.0 U	2.0 U	2.0 U	4.2 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10210C	10210C	10215	10225A
Sample ID:		WG-9954-070215-SG-042	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033
Sample Date:		07/02/2015	07/02/2015 (Duplicate)	07/02/2015	06/26/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	2.1 J	2.0 J	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	0.73 J
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10210C	10210C	10215	10225A
Sample ID:		WG-9954-070215-SG-042	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033
Sample Date:		07/02/2015	07/02/2015 (Duplicate)	07/02/2015	06/26/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	48 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	48 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	48 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	48 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.6 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	10210C	10210C	10215	10225A
		Sample ID:	WG-9954-070215-SG-042	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033
		Sample Date:	07/02/2015	07/02/2015 (Duplicate)	07/02/2015	06/26/2015
Semi-volatile Organic Compounds (Continued)						
4-Chlorophenyl phenyl ether	µg/L		9.3 U		9.3 U	9.6 U
4-Methylphenol	µg/L		9.3 U		9.3 U	9.6 U
4-Nitroaniline	µg/L		46 U	46 U	46 U	48 U
4-Nitrophenol	µg/L		46 U	46 U	46 U	48 U
Acenaphthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L		46 U	46 U	46 U	48 U
Benzyl alcohol	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Chloroethyl)ether	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L		19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Chrysene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Diethyl phthalate	µg/L		9.3 U	9.3 U	9.3 U	3.0 J
Dimethyl phthalate	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Fluoranthene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Hexachlorobutadiene	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Hexachlorocyclopentadiene	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Hexachloroethane	µg/L		9.3 U	9.3 U	9.3 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L		1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10210C	10210C	10215	10225A
Sample ID:		WG-9954-070215-SG-042	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033
Sample Date:		07/02/2015	07/02/2015 (Duplicate)	07/02/2015	06/26/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.0 J
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.6 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1254 (PCB-1254)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.42 U	0.42 U	0.42 U	0.20 U
Pesticides					
4,4'-DDD	µg/L	0.052 U	0.052 U	0.033 J	0.025 U
4,4'-DDE	µg/L	0.052 U	0.052 U	0.052 U	0.025 U
4,4'-DDT	µg/L	0.052 U	0.053 J	0.070	R
Aldrin	µg/L	0.052 U	0.052 U	0.052 U	0.025 U
alpha-BHC	µg/L	0.054 U	0.052 U	0.087 U	0.025 U
alpha-Chlordane	µg/L	0.052 U	0.052 U	0.052 U	0.025 U
beta-BHC	µg/L	0.052 U	0.052 U	0.052 U	R
delta-BHC	µg/L	0.052 U	0.052 U	0.061	R
Dieldrin	µg/L	0.052 U	0.052 U	0.052 U	0.025 U
Endosulfan I	µg/L	0.052 U	0.052 U	0.052 U	R
Endosulfan II	µg/L	0.052 U	0.052 U	0.052 U	0.025 U
Endosulfan sulfate	µg/L	0.052 U	0.052 U	0.052 U	R

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	10210C	10210C	10215	10225A
		Sample ID:	WG-9954-070215-SG-042	WG-9954-070215-SG-043	WG-9954-070215-SG-044	WG-9954-062615-SG-033
		Sample Date:	07/02/2015	07/02/2015 (Duplicate)	07/02/2015	06/26/2015
Pesticides (Continued)						
Endrin	µg/L	0.13	0.052 U	0.052 U	0.025 U	
Endrin ketone	µg/L	0.052 U	0.052 U	0.052 U	0.025 U	
gamma-BHC (lindane)	µg/L	0.052 U	0.052 U	0.062 U	0.025 U	
gamma-Chlordane	µg/L	0.052 U	0.052 U	0.052 U	0.025 U	
Heptachlor	µg/L	0.052 U	0.052 U	0.052 U	0.025 U	
Heptachlor epoxide	µg/L	0.052 U	0.052 U	0.052 U	0.053	
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	0.050 U	
Toxaphene	µg/L	4.2 U	4.2 U	4.2 U	2.0 U	

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	10225B	10225C	10225C	10270
		Sample ID:	WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024
		Sample Date:	06/26/2015	06/24/2015	06/24/2015 (Duplicate)	06/25/2015
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L		20 U	20 UJ	20 UJ	20 U
Benzene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L		2.2 J	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L		5.0 U	1.9 J	2.0 J	5.0 U
Chloroethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L		5.0 U	4.9 J	4.8 J	5.0 U
cis-1,3-Dichloropropene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L		5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10225B	10225C	10225C	10270
Sample ID:		WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024
Sample Date:		06/26/2015	06/24/2015	06/24/2015 (Duplicate)	06/25/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	13	15	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	5.1 J	6.6 J	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	46 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	46 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.3 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10225B	10225C	10225C	10270
Sample ID:		WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024
Sample Date:		06/26/2015	06/24/2015	06/24/2015 (Duplicate)	06/25/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
4-Nitroaniline	µg/L	46 U	46 U	46 U	46 U
4-Nitrophenol	µg/L	46 U	46 U	46 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	46 U	46 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10225B	10225C	10225C	10270
Sample ID:		WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024
Sample Date:		06/26/2015	06/24/2015	06/24/2015 (Duplicate)	06/25/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.3 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1221 (PCB-1221)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1232 (PCB-1232)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1242 (PCB-1242)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1248 (PCB-1248)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1254 (PCB-1254)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Aroclor-1260 (PCB-1260)	µg/L	0.20 U	0.40 U	0.40 U	0.40 U
Pesticides					
4,4'-DDD	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.055 NJ	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.025 U	0.039 J	0.047 J	0.050 U
alpha-Chlordane	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	R	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.025 U	0.066	0.085	R
Dieldrin	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	R	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.049	0.050 U	0.050 U	0.089 J
Endosulfan sulfate	µg/L	0.029	0.050 U	0.050 U	0.031 J

June - July 2015

	Sample Location:	10225B	10225C	10225C	10270
	Sample ID:	WG-9954-062615-SG-034	WG-9954-062415-SG-018	WG-9954-062415-SG-019	WG-9954-062515-SG-024
	Sample Date:	06/26/2015	06/24/2015	06/24/2015 (Duplicate)	06/25/2015
Parameters	Units				
Pesticides (Continued)					
Endrin	µg/L	R	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	0.019 J	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.025 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.086 J	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	2.0 U	4.0 U	4.0 U	4.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10272	10278	MW-01	MW-02
Sample ID:		WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:		06/25/2015	07/01/2015	07/01/2015	07/01/2015
Parameters	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 U	20 U	20 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	2.9 J	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10272	10278	MW-01	MW-02
Sample ID:		WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:		06/25/2015	07/01/2015	07/01/2015	07/01/2015
Parameters	Units				
Volatile Organic Compounds (Continued)					
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
1,2-Dichlorobenzene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
1,3-Dichlorobenzene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
1,4-Dichlorobenzene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,4,5-Trichlorophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,4,6-Trichlorophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,4-Dichlorophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,4-Dimethylphenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,4-Dinitrophenol	µg/L	46 U	48 U	46 U	46 U
2,4-Dinitrotoluene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2,6-Dinitrotoluene	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2-Chloronaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Chlorophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2-Methylnaphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylphenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
2-Nitroaniline	µg/L	46 U	48 U	46 U	46 U
2-Nitrophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
3,3'-Dichlorobenzidine	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
3-Nitroaniline	µg/L	46 U	48 U	46 U	46 U
4,6-Dinitro-2-methylphenol	µg/L	46 U	48 U	46 U	46 U
4-Bromophenyl phenyl ether	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
4-Chloro-3-methylphenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
4-Chloroaniline	µg/L	9.3 U	9.6 U	9.3 U	9.3 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:	10272	10278	MW-01	MW-02
Sample ID:	WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:	06/25/2015	07/01/2015	07/01/2015	07/01/2015
Parameters	Units			
Semi-volatile Organic Compounds (Continued)				
4-Chlorophenyl phenyl ether	µg/L	9.3 U	9.6 U	9.3 U
4-Methylphenol	µg/L	9.3 U	9.6 U	9.3 U
4-Nitroaniline	µg/L	46 U	48 U	46 U
4-Nitrophenol	µg/L	46 U	48 U	46 U
Acenaphthene	µg/L	1.9 U	1.9 U	1.9 U
Acenaphthylene	µg/L	1.9 U	1.9 U	1.9 U
Anthracene	µg/L	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene	µg/L	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	µg/L	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U
Benzo(g,h,i)perylene	µg/L	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene	µg/L	1.9 U	1.9 U	1.9 U
Benzoic acid	µg/L	46 U	48 U	46 U
Benzyl alcohol	µg/L	9.3 U	9.6 U	9.3 U
bis(2-Chloroethoxy)methane	µg/L	9.3 U	9.6 U	9.3 U
bis(2-Chloroethyl)ether	µg/L	9.3 U	9.6 U	9.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	9.3 U	9.6 U	9.3 U
Chrysene	µg/L	1.9 U	1.9 U	1.9 U
Dibenz(a,h)anthracene	µg/L	1.9 U	1.9 U	1.9 U
Dibenzofuran	µg/L	9.3 U	9.6 U	9.3 U
Diethyl phthalate	µg/L	9.3 U	9.6 U	9.3 U
Dimethyl phthalate	µg/L	9.3 U	9.6 U	9.3 U
Di-n-butylphthalate (DBP)	µg/L	9.3 U	9.6 U	9.3 U
Di-n-octyl phthalate (DnOP)	µg/L	9.3 U	9.6 U	9.3 U
Fluoranthene	µg/L	1.9 U	1.9 U	1.9 U
Fluorene	µg/L	1.9 U	1.9 U	1.9 U
Hexachlorobenzene	µg/L	9.3 U	9.6 U	9.3 U
Hexachlorobutadiene	µg/L	9.3 U	9.6 U	9.3 U
Hexachlorocyclopentadiene	µg/L	9.3 U	9.6 U	9.3 U
Hexachloroethane	µg/L	9.3 U	9.6 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/L	1.9 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample Location:		10272	10278	MW-01	MW-02
Sample ID:		WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
Sample Date:		06/25/2015	07/01/2015	07/01/2015	07/01/2015
Parameters	Units				
Semi-volatile Organic Compounds (Continued)					
Isophorone	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
Naphthalene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	µg/L	19 U	19 U	19 U	19 U
N-Nitrosodi-n-propylamine	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
N-Nitrosodiphenylamine	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
Pentachlorophenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
Phenanthrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	µg/L	9.3 U	9.6 U	9.3 U	9.3 U
Pyrene	µg/L	1.9 U	1.9 U	1.9 U	1.9 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1254 (PCB-1254)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.40 U	0.21 U	0.20 U	0.20 U
Pesticides					
4,4'-DDD	µg/L	R	R	0.034	0.025 U
4,4'-DDE	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
4,4'-DDT	µg/L	0.050 U	0.030	0.025 U	0.023 J
Aldrin	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
alpha-BHC	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
alpha-Chlordane	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
beta-BHC	µg/L	0.050 U	R	0.025 U	0.025 U
delta-BHC	µg/L	0.050 U	0.035 J	0.042	0.025 J
Dieldrin	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
Endosulfan I	µg/L	0.050 U	0.026 U	0.025 U	0.025 U
Endosulfan II	µg/L	0.050 U	0.054 J	0.025 U	0.025 U
Endosulfan sulfate	µg/L	0.050 U	R	0.025 U	0.025 U

Table 2

Analytical Results Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameters	Units	Sample Location:	10272	10278	MW-01	MW-02
		Sample ID:	WG-9954-062515-SG-025	WG-9954-070115-SG-039	WG-9954-070115-SG-037	WG-9954-070115-SG-036
		Sample Date:	06/25/2015	07/01/2015	07/01/2015	07/01/2015
Pesticides (Continued)						
Endrin	µg/L		0.050 U	R	0.025 U	0.025 U
Endrin ketone	µg/L		0.050 U	0.026 U	0.025 U	0.025 U
gamma-BHC (lindane)	µg/L		0.050 U	0.026 U	0.025 U	0.025 U
gamma-Chlordane	µg/L		0.050 U	0.026 U	0.025 U	0.025 U
Heptachlor	µg/L		0.050 U	0.026 U	0.025 U	0.025 U
Heptachlor epoxide	µg/L		0.050 U	0.026 U	0.025 U	0.025 U
Methoxychlor	µg/L		0.10 U	0.11	0.050 U	R
Toxaphene	µg/L		4.0 U	2.1 U	2.0 U	2.0 U

Notes:

J - Estimated concentration

R - Rejected

NJ - Presumptively present, estimated concentration

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40

Notes:**Method References:**

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

- - Not applicable

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameter	Analyte	Calibration Date	RRF	%D	Associated Sample ID	Qualified Result	Units
VOCs	Vinyl acetate	06/19/2015	-	28.3	WG-9954-061715-DJT-003	5.0 UJ	µg/L
					WG-9954-061715-DJT-001	5.0 UJ	µg/L
					WG-9954-061715-DJT-002	5.0 UJ	µg/L
VOCs	Vinyl acetate	06/30/2015	-	69.4	WG-9954-062215-DJT-004	5.0 UJ	µg/L
					WG-9954-062215-DJT-005	5.0 UJ	µg/L
					WG-9954-062215-DJT-006	5.0 UJ	µg/L
					WG-9954-062215-DJT-007	5.0 UJ	µg/L
					WG-9954-062215-DJT-008	5.0 UJ	µg/L
					WG-9954-062215-DJT-009	5.0 UJ	µg/L
					WG-9954-062315-SG-014	5.0 UJ	µg/L
					WG-9954-062315-SG-012	5.0 UJ	µg/L
					WG-9954-062315-SG-013	5.0 UJ	µg/L
					WG-9954-062315-SG-010	5.0 UJ	µg/L
VOCs	Vinyl acetate	07/01/2015	-	54.7	WG-9954-062515-SG-017	5.0 UJ	µg/L
					WG-9954-062515-SG-020	5.0 UJ	µg/L
					WG-9954-062515-SG-021	5.0 UJ	µg/L
					WG-9954-062515-SG-022	5.0 UJ	µg/L
VOCs	Vinyl acetate	07/02/2015	-	53.1	WG-9954-062415-SG-015	5.0 UJ	µg/L
					WG-9954-062515-SG-027	5.0 UJ	µg/L
					WG-9954-062515-SG-023	500 UJ	µg/L
					WG-9954-062515-SG-024	5.0 UJ	µg/L
					WG-9954-062515-SG-025	5.0 UJ	µg/L
VOCs	Vinyl acetate	07/06/2015	-	59.0	WG-9954-062415-SG-018	5.0 UJ	µg/L
					WG-9954-062415-SG-016	5.0 UJ	µg/L
					WG-9954-062415-SG-019	5.0 UJ	µg/L
VOCs	Acetone	07/06/2015	-	47.7	WG-9954-062415-SG-018	20 UJ	µg/L
					WG-9954-062415-SG-016	20 UJ	µg/L
					WG-9954-062415-SG-019	20 UJ	µg/L
VOCs	Acetone	07/07/2015	-	42.4	WG-9954-062615-SG-032	20 UJ	µg/L
VOCs	Vinyl acetate	07/08/2015	-	45.5	WG-9954-062615-SG-035	5.0 UJ	µg/L
					WG-9954-062615-SG-033	5.0 UJ	µg/L
					WG-9954-062615-SG-034	5.0 UJ	µg/L
					WG-9954-062615-SG-029	5.0 UJ	µg/L
					WG-9954-062615-SG-028	5.0 UJ	µg/L
					WG-9954-062615-SG-030	5.0 UJ	µg/L
					WG-9954-062615-SG-031	5.0 UJ	µg/L
					WG-9954-070115-SG-039	5.0 UJ	µg/L
					WG-9954-070115-SG-038	5.0 UJ	µg/L
					WG-9954-070115-SG-040	5.0 UJ	µg/L
					WG-9954-070115-SG-037	5.0 UJ	µg/L
					WG-9954-070115-SG-036	5.0 UJ	µg/L

Table 4

**Qualified Sample Results Due to Outlying Continuing Calibration Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015**

Parameter	Analyte	Calibration Date	RRF	%D	Associated Sample ID	Qualified Result	Units
VOCS	Vinyl acetate	07/09/2015	-	49.6	WG-9954-070215-SG-041	5.0 UJ	µg/L
					WG-9954-070215-SG-042	5.0 UJ	µg/L
					WG-9954-070215-SG-043	5.0 UJ	µg/L
					WG-9954-070215-SG-044	5.0 UJ	µg/L
					WG-9954-070215-SG-045	5.0 UJ	µg/L

Notes:

VOCS - Volatile Organic Compounds

- - Not applicable

%D - Percent Difference

RRF - Relative Response Factor

UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying MS/MSD Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
SVOCs	WG-9954-062415-SG-015	Benzoic acid	0	0	NC	28 - 117	25	R	µg/L
		Hexachlorocyclopentadiene	33	32	7	47 - 102	15	9.3 UJ	µg/L
		Hexachloroethane	44	44	4	46 - 106	15	9.3 UJ	µg/L
		Pentachlorophenol	38	39	1	46 - 106	15	9.3 UJ	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated
NC - Not Calculated
R - Rejected

Table 6

**Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015**

Parameter	Rinse Blank ID	Blank Date	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Pesticides	RB-9954-070215-SG-046	07/02/2015	alpha-BHC	0.27	WG-9954-062615-SG-035	0.021 J	0.025 U	µg/L
					WG-9954-062615-SG-032	0.013 J	0.025 U	µg/L
					WG-9954-062615-SG-029	0.072	0.072 U	µg/L
					WG-9954-062615-SG-028	0.090	0.090 U	µg/L
					WG-9954-062615-SG-030	0.035	0.035 U	µg/L
					WG-9954-062615-SG-031	0.037	0.037 U	µg/L
					WG-9954-070215-SG-042	0.054	0.054 U	µg/L
					WG-9954-070215-SG-043	0.042 J	0.052 U	µg/L
					WG-9954-070215-SG-044	0.087	0.087 U	µg/L
Pesticides	RB-9954-070215-SG-046	07/02/2015	delta-BHC	0.039 J	WG-9954-062615-SG-034	0.023 J	0.025 U	µg/L
					WG-9954-062615-SG-031	0.016 J	0.026 U	µg/L
					WG-9954-070215-SG-041	0.022 J	0.052 U	µg/L
Pesticides	RB-9954-070215-SG-046	07/02/2015	gamma-BHC	0.20	WG-9954-062615-SG-035	0.024 J	0.025 U	µg/L
					WG-9954-062615-SG-029	0.056	0.056 U	µg/L
					WG-9954-062615-SG-028	0.071	0.071 U	µg/L
					WG-9954-062615-SG-031	0.041	0.041 U	µg/L
					WG-9954-070215-SG-044	0.062	0.062 U	µg/L

Notes:

BHC - Benzene Hexachloride
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 7

Tentatively Identified Compounds Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample ID	Volatiles		Semi-Volatiles	
	Compound	Estimated Concentration (µg/L)	Compound	Estimated Concentration (µg/L)
WG-9954-061715-DJT-001	Unknown	12 J	-	-
WG-9954-061715-DJT-002	Unknown	13 J	-	-
WG-9954-061715-DJT-003	1,2:3,4-Dibenzopyrene	28 J	-	-
	3,4:8,9-Dibenzopyrene	10 J	-	-
	1,2:4,5-Dibenzopyrene	22 J	-	-
	Unknown	29 J	-	-
WG-9954-062215-DJT-004	-	-	Unknown	26 J
WG-9954-062215-DJT-005	-	-	Methylene chloride	14 NJ
WG-9954-062215-DJT-006	-	-	Unknown	15 J
WG-9954-062215-DJT-008	-	-	Unknown	17 J
WG-9954-062215-DJT-009	-	-	Unknown	14 J
WG-9954-062315-SG-012	-	-	Unknown	5.1 J
WG-9954-062315-SG-013	Hexanal	12 NJ	-	-
WG-9954-062315-SG-014	-	-	Unknown	4.6 J
WG-9954-062415-SG-015	-	-	Unknown	5.3 J
WG-9954-062415-SG-016	Furan, tetrahydro-2-methyl-	19 NJ	Unknown	15 J

Table 7

Tentatively Identified Compounds Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample ID	Volatiles		Semi-Volatiles	
	Compound	Estimated Concentration (µg/L)	Compound	Estimated Concentration (µg/L)
WG-9954-062515-SG-016	-	-	Unknown	38 J
WG-9954-062415-SG-018	Unknown	13 J	Unknown	8.2 J
	Unknown Benzene Derivative	28 J	-	-
WG-9954-062415-SG-019	Unknown Benzene Derivative	44 J	-	-
WG-9954-062515-SG-020	-	-	Unknown	17 J
WG-9954-062515-SG-021	-	-	Unknown	4.9 J
WG-9954-062515-SG-023	Benzene, 1-chloro-2-methyl-	18000 NJ	Benzene, 1-chloro-2-methyl-	5500 NJ
	Benzene, 1-chloro-4-methyl-	8700 NJ	Benzene, 1-chloro-3-methyl-	3100 NJ
	Unknown Benzene Derivative	1300 J	Benzene, 1-chloro-4-(chloromethyl)-	360 NJ
	-	-	Parachlorophenol	3200 NJ
	-	-	Benzoic acid, 3-chloro-	5300 NJ
	-	-	Benzoic acid, 2-chloro-	2800 NJ
	-	-	Phenol, 3,4-dichloro-	720 NJ
	-	-	Unknown	2100 J
WG-9954-062515-SG-024	Sulfur dioxide	41 NJ	-	-
WG-9954-062515-SG-025	Unknown	34 J	Unknown	24 J
WG-9954-062515-SG-026	-	-	Unknown	14 J
WG-9954-062515-SG-027	-	-	Unknown	13 J

Table 7

Tentatively Identified Compounds Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample ID	Volatiles		Semi-Volatiles	
	Compound	Estimated Concentration (µg/L)	Compound	Estimated Concentration (µg/L)
WG-9954-062615-SG-031	Sulfur dioxide	14 NJ	-	-
WG-9954-062615-SG-032	Methanethiol	130 NJ	Unknown	3300 J
	Dimethyl sulfide	370 NJ	-	-
	Ethane, (methylthio)-	36 NJ	-	-
	Disulfide, dimethyl	7.1 NJ	-	-
	Unknown	74 J	-	-
WG-9954-062615-SG-033	Methanethiol	180 NJ	Unknown	154 J
	Dimethyl sulfide	420 NJ	-	-
	Ethane, (methylthio)-	46 NJ	-	-
	Propane, 2-(methylthio)-	6.2 NJ	-	-
	Disulfide, dimethyl	26 NJ	-	-
	Butane	10 NJ	-	-
WG-9954-062615-SG-034	Methanethiol	18 NJ	Unknown	13 J
WG-9954-062615-SG-035	Sulfur dioxide	120 NJ	Unknown	5.1 J
WG-9954-070115-SG-036	-	-	Unknown	9.5 J
WG-9954-070115-SG-040	Sulfur dioxide	50 NJ	-	-
WG-9954-070215-SG-042	Sulfur dioxide	94 NJ	-	-
WG-9954-070215-SG-043	Sulfur dioxide	120 NJ	Unknown	23 J

Table 7

Tentatively Identified Compounds Summary
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

Sample ID	Volatiles		Semi-Volatiles	
	Compound	Estimated Concentration (µg/L)	Compound	Estimated Concentration (µg/L)
WG-9954-070215-SG-044	Sulfur dioxide	86 NJ	-	-
WG-9954-070215-SG-045	Sulfur dioxide	96 NJ	-	-

Notes:

- - Not analyzed
- NJ - Presumptively present, estimated concentration
- J - Estimated concentration

Table 8

Qualified Sample Data Due to Differences in Dual Column Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

<i>Parameter</i>	<i>Sample ID</i>	<i>% D</i>	<i>Criteria (percent)</i>	<i>Analyte</i>	<i>Qualified Result</i>	<i>Units</i>
Pesticides	WG-9954-062515-SG-027	44	40	Methoxychlor	0.039 J	µg/L
Pesticides	WG-9954-062515-SG-023	110	40	4,4'-DDD	R	µg/L
		100		4,4'-DDE	R	µg/L
		184		Aldrin	R	µg/L
		180		Endosulfan I	R	µg/L
		51		gamma-Chlordane	1.1 J	µg/L
		118		Heptachlor	R	µg/L
		101		Heptachlor epoxide	R	µg/L
Pesticides	WG-9954-062515-SG-024	120	40	delta-BHC	R	µg/L
		91		Endosulfan II	0.089 NJ	µg/L
		89		Endosulfan sulfate	0.031 NJ	µg/L
Pesticides	WG-9954-062515-SG-025	100	40	4,4'-DDD	R	µg/L
Pesticides	WG-9954-062615-SG-035	43	40	4,4'-DDE	0.017 J	µg/L
		50		4,4'-DDT	0.037 J	µg/L
		190		beta-BHC	R	µg/L
		74		delta-BHC	0.10 J	µg/L
		92		Endosulfan II	0.037 NJ	µg/L
		124		Endosulfan sulfate	R	µg/L
		114		Methoxychlor	R	µg/L
Pesticides	WG-9954-062615-SG-032	80	40	4,4'-DDE	0.023 J	µg/L
		63		4,4'-DDT	0.078 J	µg/L
		123		delta-BHC	R	µg/L
		173		Endosulfan I	R	µg/L
		165		Endosulfan II	R	µg/L
		93		Endosulfan sulfate	0.039 NJ	µg/L
		103		Heptachlor epoxide	R	µg/L
		154		Methoxychlor	R	µg/L

Table 8

Qualified Sample Data Due to Differences in Dual Column Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

<i>Parameter</i>	<i>Sample ID</i>	<i>% D</i>	<i>Criteria (percent)</i>	<i>Analyte</i>	<i>Qualified Result</i>	<i>Units</i>
Pesticides	WG-9954-062615-SG-033	194	40	4,4'-DDT	R	µg/L
		198		beta-BHC	R	µg/L
		136		delta-BHC	R	µg/L
		137		Endosulfan I	R	µg/L
		180		Endosulfan sulfate	R	µg/L
Pesticides	WG-9954-062615-SG-034	89	40	4,4'-DDT	0.055 NJ	µg/L
		197		beta-BHC	R	µg/L
		171		Endosulfan I	R	µg/L
		73		Endrin	0.027 J	µg/L
		81		gamma-Chlordane	0.019 NJ	µg/L
Pesticides	WG-9954-062615-SG-029	48		Methoxychlor	0.086 J	µg/L
		71	40	4,4'-DDT	0.025 J	µg/L
		178		beta-BHC	R	µg/L
		92		delta-BHC	0.027 NJ	µg/L
Pesticides	WG-9954-062615-SG-028	195	40	beta-BHC	R	µg/L
		193		beta-BHC	R	µg/L
		124		delta-BHC	R	µg/L
		60		Dieldrin	0.032 J	µg/L
		172		Endosulfan I	R	µg/L
Pesticides	WG-9954-062615-SG-030	115		Endosulfan II	R	µg/L
		57	40	4,4'-DDT	0.029 J	µg/L
		126		4,4'-DDD	R	µg/L
		194		beta-BHC	R	µg/L
		59		delta-BHC	0.035 J	µg/L
Pesticides	WG-9954-070115-SG-039	51		Endosulfan II	0.054 J	µg/L
		136		Endosulfan sulfate	R	µg/L
		130		Endrin	R	µg/L

Table 8

Qualified Sample Data Due to Differences in Dual Column Results
Love Canal Annual Long Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June - July 2015

<i>Parameter</i>	<i>Sample ID</i>	<i>% D</i>	<i>Criteria (percent)</i>	<i>Analyte</i>	<i>Qualified Result</i>	<i>Units</i>
Pesticides	WG-9954-070115-SG-038	76	40	4,4'-DDT	0.017 J	µg/L
Pesticides	WG-9954-070115-SG-040	46	40	delta-BHC	0.032 J	µg/L
		91		Endosulfan sulfate	0.014 NJ	µg/L
		78		Methoxychlor	0.028 J	µg/L
Pesticides	WG-9954-070115-SG-036	50	40	delta-BHC	0.025 J	µg/L
		107		Methoxychlor	R	µg/L
Pesticides	WG-9954-070215-SG-043	53	40	4,4'-DDT	0.053 J	µg/L
Pesticides	WG-9954-070215-SG-044	46	40	4,4'-DDD	0.033 J	µg/L

Notes:

%D	- Percentage Difference
BHC	- Benzene Hexachloride
DDD	- Dichlorodiphenyldichloroethane
DDE	- Dichlorodiphenyldichloroethylene
DDT	- Dichlorodiphenyltrichloroethane
RPD	- Relative Percent Difference
R	- Rejected
NJ	- Presumptively present, estimated concentration
J	- Estimated concentration

Appendix G

2015 Niagara Falls Water Board Inspection Letter

PART II SAMPLE COLLECTION

- a) Does permit require SIU to submit Periodic Self Monitoring Reports? [40 CFR403.12h] **YES**
- b) If "yes", does the sample collection frequency and pollutant type conform with permit requirements? **YES**
- c) Are the sample collection locations as described in the permit adequate for representative sample collection? [1960.6 (a)] **YES**
- d) Does the method of sample collection conform with permit requirements, **Sewer Use Ordinance** and **Federal Standards**? **YES**
 - i) Sample **refrigerated throughout collection and storage**? **YES**
 - ii) Are samples properly preserved? **YES**
 - iii) Are samples collected using **flow proportion composite** or **grab sampling where appropriate**? [40 CFR12(b)(5)(iii)]. **YES**
 - iv) Sample holding times appropriate? [40 CFR136.3] **YES**

PART III LABORATORY FACILITIES

- a) Is a commercial laboratory used? **YES**
 - i) Name of laboratory: **TestAmerica Pittsburgh**
 - ii) Address: **301 Alpha Drive Pittsburgh, PA 15238**
 - iii) Is laboratory State certified? **YES**
- b) Does SIU perform its own analysis? **NO**
 - i) Is the SIU's laboratory State certified? **N/A**
 - ii) Are your laboratory wastes properly disposed of? **N/A**
- c) Are EPA approved testing methods used? **YES**

PART IV RECORDS AND REPORTS

a)	Are monitoring records and reports retained in SIU files for at least three years ? [1960.5 (d)(3)]	YES
b)	Are all records of sludge volume and disposal practices maintained in files? [1960.5 (d)(2)]	YES
c)	Have all hazardous waste discharges been reported to POTW? [40 CFR403.12(p)].	N/A
d)	If hazardous waste is discharged, is a waste minimization plan developed and implemented?	N/A
e)	Does the SIU have a valid wastewater discharge permit retained on file? [40 CFR403.8(f)(I)(iii)(A)-(E)]	YES
f)	Have all required reports been submitted on time?	YES
g)	Do Self Monitoring reports contain necessary information (samplers name, date & time, sample type, flow, preservation, chain of custody, results) ? [40 CFR403.8(f)(3)(vi)].	YES

PART V PLANT OPERATION AND MAINTENANCE

a)	Have there been any accidental discharge(s) that entered the sewer system?	NO
	Have they been reported to the POTW as well as other appropriate agencies? [1960.6 (d)]	N/A
b)	Is a spill notification procedure conspicuously posted in process areas of the plant? Issued updated contact list 1/23/15	YES
c)	Is there any evidence of spills?	NO
d)	Are all hazardous sludges and solids properly disposed of?	YES

- e) Has this facility been evaluated **OR** re-evaluated for its' potential to experience a slug discharge? 1/23/2015 **YES**
- 1) Is a **Slug Control Plan** required for this facility [40 CFR403.8(f)(2)(vi)] ? **NO**
- A. Has the facility **Developed** and **Implemented** a **Slug Control Plan**? **N/A**
- a. The date of the plan's last update: **N/A**
- b. Is the latest update on file at the NFWB? **N/A**
- c. Does it contain the correct Water Board phone numbers and extensions. **N/A**
- 2) Has the facility experienced a slug discharge since The last inspection? **NO**
- f) Have there been any significant **manufacturing** or **process** changes? [1960.5 (c)] **NO**
List: **None**
- Who was contacted **prior** to implementation of these changes?
N/A Date: **N/A**
- g) Describe your hazardous waste storage area(s).
Double contained in the decontamination/storage facility.
- Do they meet DEC & EPA containment requirements? **YES**
- Are all containers correctly labeled and time limits adhered to? **YES**
- Describe your method of disposal:
Incineration as needed through Clean Harbors Inc. at their Deer Park Texas, Utah, or Arizona Facility, approximately once per quarter.
- h) Regarding the blueprints that you submitted with your last permit application, **have there been any significant changes made to your process or sewer lines?** **NO**
- Have revised blueprints been sent to the WWTP? **N/A**

PART VI PRETREATMENT

- a) Briefly describe all required pretreatment.
Clarifier → Bag filter → Carbon treatment → WWTP

- b) Are all pretreatment facilities properly maintained? **YES**
- c) How many pH probes does your pH monitoring system contain? **0**

List the frequency for calibration.
N/A

- d) To your knowledge, has **anyone** discharged any un-permitted waste or waste not properly pretreated into the sewer system? [40 CFR 403.179] **NO**
- e) Were WWTP personal notified? **N/A**
- Prior to discharge to sewer? **N/A**
- During or after discharge? **N/A**

Who? **N/A** Date: **N/A** Time: **N/A**

SIU personal who contacted WWTP: **N/A**

Was written notification given to the WWTP **within five (5) working days** of the start of the event?
 [40 CFR 403.17a] **N/A**

Sent to: **N/A** From: **N/A** Date: **N/A**

- f) List any pretreatment changes that were made in the past 12 months.
None

Who was contacted **prior** to implementation of these pretreatment changes?
N/A

PART VII COMPLIANCE AND ENFORCEMENT

- a) Has the SIU had any violations since the last inspection? List: **None** **NO**
- b) If numeric violations were noted by SIU, was a repeat sample collection and analysis performed within 30 days and the results submitted to the POTW [40 CFR403.12(g)] ? **N/A**
- c) Is SIU currently on an administrative order and/or compliance schedule? **NO**
- d) If yes, have milestone dates on schedule been met? **N/A**
- e) Was escalating enforcement action required to achieve compliance? Describe: **None Required** **NO**

PART VIII RECOMMENDATIONS, REQUIREMENTS AND COMMENTS:



December 11, 2015

Mr. Darrell Crockett – Facility Manager
Occidental Chemical Corporation
Love Canal
805 – 97th Street
Niagara Falls, New York 14304

Dear Mr. Crockett:

Enclosed please find the results of the Plant Inspection that was conducted at your facility on Monday, January 23rd, 2015 @ 9:00AM

If you have any questions, I can be reached at 283-9770 ext 262.

Sincerely,

NIAGARA FALLS WATER BOARD
WASTEWATER FACILITIES

Stephen C. Stewart

Stephen C. Stewart
Senior Industrial Waste Inspector

Cc: J. Paradise → S. Stewart → **File: - I-44**
Emailed to SIU

Appendix H

2015 Test and Maintenance of Backflow Prevention Device Reports

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2015
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>CITY OF NIAGARA FALLS</u>		Account No.		County <u>NIAGARA</u>	Block	Lot
Facility Name <u>GLENN SPRINGS</u>				Location of Device		
Address <u>805 95TH ST. NIAGARA FALLS 14304</u>				<u>TREATMENT BLDG. (WASHDOWN)</u>		
Device Information		Manufacturer <u>WATTS</u>	Type ☒ RPZ ☐ DCV	Model <u>009M3QT</u>	Size (in inches) <u>3/4"</u>	Serial Number <u>8276661327</u>
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve		Line Pressure <u>60</u> psi
Test before repair	Leaked ☒ Closed tight ☐	Leaked ☒ Closed tight ☐		Opened at _____ psid		Date <u>03</u> <u>23</u> <u>15</u> M D Y
	Pressure drop across first check valve _____ psid					
Describe repairs and materials used	<u>REPLACED BACKFLOW</u>				Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y	
Final test	Closed tight ☒	Closed tight ☒		Opened at <u>2.2</u> psid		Date _____ M D Y
	Pressure drop across first check valve <u>6.9</u> psid					
Water Meter Number <u>N/A</u>		Meter Reading <u>N/A</u>		Type of Service: (check one) • Domestic • Fire • <u>Other</u> <u>PROGRESS</u>		

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name JOHN A. GOLUSA Certified Tester No. 5808 Signature [Signature] Expiration Date 08/30/17

Property owners (or owners agent) certification that test was performed:

Print Name Darrell Crockett Title Tech Signature [Signature] Telephone 716 918 5204

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing		Describe minor installation changes	
Address			
City	State Zip		
Signature			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH- 1013(9/91)

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2015

- ☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply CITY OF NIAGARA FALLS Account No. _____ County NIAGARA Block _____ Lot _____

Facility Name GLENN SPRINGS Location of Device _____
Address 805 95TH ST. NIAGARA FALLS 14304 TREATMENT BLDG.
Street City Zip

Device Information Manufacturer WATTS Type ☒ RPZ ☐ DCV Model 009M2QT Size (in inches) 2" Serial Number 179645

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure <u>60</u> psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve <u>7.6</u> psid	Leaked ☐ Closed tight ☒	Opened at <u>2.4</u> psid	Date M D Y

Describe repairs and materials used	Repaired by			
	Name	Lic #	Date repaired:	
			M	D Y

Final test	Closed tight ☐	Closed tight ☐	Opened at _____ psid	Date
	Pressure drop across first check valve _____ psid			M D Y

Water Meter Number N/A Meter Reading N/A Type of Service: (check one)
• Domestic • Fire • Other PROCESS

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.
James A. Gouba 5808 [Signature] 04/30/17
Print Name Certified Tester No. Signature Expiration Date

Property owners (or owners agent) certification that test was performed:
Daniel Cook Technician [Signature] 716998-5804
Print Name Title Signature Telephone

PART B Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing	Describe minor installation changes		
Address			
City State Zip			
Signature			

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2015

- ☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>CITY OF NIAGARA FALLS</u>		Account No.		County <u>NIAGARA</u>	Block	Lot
Facility Name <u>GLENN SPRINGS</u>				Location of Device		
Address <u>805 95TH ST. NIAGARA FALLS 14304</u>				<u>MAINTENANCE BLDG.</u>		
Device Information		Manufacturer <u>WATTS</u>	Type ☒ RPZ ☐ DCV	Model <u>009M2QT</u>	Size (in inches) <u>1"</u>	Serial Number <u>029613</u>
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve		Line Pressure <u>84</u> psi
Test before repair	Leaked ☐ Closed tight ☒		Leaked ☐ Closed tight ☒		Opened at <u>2.2</u> psid	Date <u>03</u> <u>23</u> <u>15</u> M D Y
	Pressure drop across first check valve <u>6.9</u> psid					
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y	
					Date _____ M D Y	
Final test	Closed tight ☐		Closed tight ☐		Opened at _____ psid	Date _____ M D Y
	Pressure drop across first check valve _____ psid					
Water Meter Number <u>34592315</u>		Meter Reading <u>062130</u>		Type of Service: (check one) ☒ Domestic • Fire • Other _____		
Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)						
Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing I hereby certify the foregoing data to be correct.						
<u>JOHN A. GOLBA</u> Print Name		<u>5808</u> Certified Tester No.		<u>[Signature]</u> Signature		<u>04/30/17</u> Expiration Date
Property owners (or owners agent) certification that test was performed: <u>Danell Godett</u> Print Name		<u>Technician</u> Title		<u>[Signature]</u> Signature		<u>716.998.5804</u> Telephone

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing		Describe minor installation changes	
Address			
City	State	Zip	
Signature			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH- 1013(9/91)

Report on Test and Maintenance of Backflow Prevention Device

PART A		Please use a separate form for each device.		For the year <u>2015</u> ☐ Initial test - Complete entire form ☒ Annual test - Complete Part A only	
Public Water Supply <u>CITY OF NIAGARA FALLS</u>		Account No.		County <u>NIAGARA</u>	Block Lot
Facility Name <u>GLENN SPRINGS</u>		Location of Device <u>LOCKER ROOM</u>			
Address <u>805 95TH ST. NIAGARA FALLS 14304</u> Street City Zip					
Device Information	Manufacturer <u>WATTS</u>	Type ☒ RPZ ☐ DCV	Model <u>909</u>	Size (in inches) <u>1 1/2</u>	Serial Number <u>364807</u>
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve	
Test before repair	Leaked ☐ Closed tight ☒	Leaked ☐ Closed tight ☒		Opened at <u>2.2</u> psid	Date <u>03</u> <u>23</u> <u>15</u> M D Y
	Pressure drop across first check valve <u>7.3</u> psid				
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y
Final test	Closed tight ☐	Closed tight ☐		Opened at _____ psid	Date _____ M D Y
	Pressure drop across first check valve _____ psid				
Water Meter Number <u>31671117</u>		Meter Reading <u>010722</u> ☒		Type of Service: (check one) ☒ Domestic • Fire • Other _____	
Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)					
Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing I hereby certify the foregoing data to be correct. <u>JOHN A. GOLBA</u> <u>3808</u> <u>[Signature]</u> <u>04/30/17</u> Print Name Certified Tester No. Signature Expiration Date					
Property owners (or owners agent) certification that test was performed: <u>Darrell Crockett</u> <u>Technician</u> <u>[Signature]</u> <u>918 5804</u> Print Name Title Signature Telephone					

PART B		Certification that installation is in accordance with the approved plans.		(To be completed by the design engineer or architect or water supplier.)	
I hereby certify that this installation is in accordance with the approved plans.					
Name	Title	Date	NYS DOH Log #		
License Number	Phone ()	m d y			
Representing		Describe minor installation changes			
Address					
City	State	Zip			
Signature					

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2015
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>CITY OF NIAGARA FALLS</u>		Account No.		County <u>NIAGARA</u>	Block	Lot
Facility Name <u>GLENN SPRINGS</u>				Location of Device		
Address <u>805 95TH ST. NIAGARA FALLS 14304</u> Street City Zip				<u>TREATMENT BLDG. (MECH. ROOM)</u>		
Device Information	Manufacturer <u>WATTS</u>	Type ☒ RPZ ☐ DCV	Model <u>909</u>	Size (in inches) <u>3"</u>	Serial Number <u>192775</u>	
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve	Line Pressure <u>84</u> psi	
Test before repair	Leaked ☐ Closed tight ☒	Leaked ☐ Closed tight ☒	Opened at <u>2.2</u> psid		Date <u>03</u> <u>23</u> <u>15</u> M D Y	
	Pressure drop across first check valve <u>7.2</u> psid					
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y	
Final test	Closed tight ☐	Closed tight ☐	Opened at _____ psid		Date _____ M D Y	
	Pressure drop across first check valve _____ psid					
Water Meter Number <u>31923329</u>		Meter Reading <u>509241</u> <u>01695210</u>		Type of Service: (check one) ☒ Domestic ☐ Fire ☐ Other _____		
Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)						
Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing I hereby certify the foregoing data to be correct.						
Print Name <u>JOHN A. GOLBA</u>		Certified Tester No. <u>5808</u>		Signature <u>[Signature]</u>		Expiration Date <u>04/30/17</u>
Property owners (or owners agent) certification that test was performed: <u>Daniel Crockett</u>		Title <u>Technician</u>		Signature <u>[Signature]</u>		Telephone <u>716 948 5804</u>

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.							
Name		Title		Date		NYS DOH Log #	
License Number		Phone ()		m d y			
Representing			Describe minor installation changes				
Address							
City		State					Zip
Signature							

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

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