



SITE CHARACTERIZATION REPORT

**FORMER ZOE CHEMICAL
1801 Falmouth Avenue
New Hyde Park, New York
NYSDEC SITE #130211**

**February 2014
Revised July 2014**

Prepared for:

**SEABOARD ESTATES, INC.
c/o BEVERIDGE & DIAMOND, LLC
477 Madison Avenue, 15th Floor
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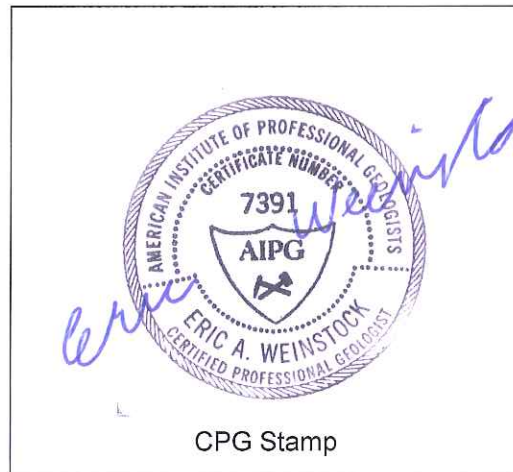
Prepared by:

**CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, NY 11803-1614**

CERTIFICATION

I, Eric Weinstock, certify that I am currently a Qualified Environmental Professional as defined by 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

7391	July 16, 2014	<i>Eric Weinstock</i>
Certified Professional Geologist #	Date	Signature





July 16, 2014

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
625 Broadway, 12th Floor
Albany, New York 12207

Attention: Brian Jankauskas
Project Manager

Re: **SITE CHARACTERIZATION REPORT**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, N.Y.
NYSDEC Site No.: 1-30-211

Dear Mr. Jankauskas:

CA RICH Consultants, Inc. (CA RICH) is pleased to provide you with this Site Characterization Report on behalf of Seaboard Estates, Inc. This report was prepared in accordance with our approved Site Characterization Work Plan.

If you have any questions pertaining to this report, please feel free to contact the undersigned.

Sincerely,

CA RICH CONSULTANTS, INC.

A handwritten signature in black ink that reads "Jessica Proscia".

Jessica Proscia, EP
Project Environmental Scientist

Reviewed by:

A handwritten signature in black ink that reads "Eric Weinstock".

Eric A. Weinstock, CPG
Vice President

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1.0 Introduction and Site Background

The subject Property, Former Zoe Chemical, is located at 1801 Falmouth Avenue in New Hyde Park, New York (Site). A Site Location Map is presented in Figure 1. This Site Characterization Report is based upon the guidelines set forth in NYSDEC's DER-10 Technical Guidance for Site Investigations and Remediation (Ref. 1). The proposed scope of work presented in this Site Characterization Report was conducted in accordance with the Site Characterization Work Plan, Quality Assurance Project Plan and Health & Safety Plan (Ref. 8) prepared for this Site. Based on information already obtained during previous environmental investigations near the Site, the contaminants of concern are 1,1,1-trichloroethane (TCA) and its degradation products. According to the Nassau County Department of Health (NCDH) records the chemicals which were blended, packaged or stored at Zoe Chemical included caustic soda, ethylene glycol, sulfuric acid, ammonia, alcohols, petroleum, chlorinated organics, and pesticides. However, of these products the pesticides dieldrin was detected at eight to eleven feet and aldrin was detected at ten to eleven feet at concentrations exceeding their NYSDEC Part 375 commercial soil cleanup objectives. Additionally, dieldrin and trichloroethene (TCE) were identified in the groundwater exceeding their NYSDEC TOGs standards.

This Report addresses the investigation activities completed as a further characterization and follow-up investigation with regards to the presence of TCA in the groundwater beneath the Site. To summarize, between February 2010 and May 2011, NYSDEC contracted the services of MACTEC Engineering and Consulting, P.C. (MACTEC) to investigate possible sources of perchloroethene (PCE) and trichloroethene (TCE) groundwater contamination that had impacted two municipal supply wells in New Hyde Park, NY. These wells, identified as N-7649 and N-7650, are approximately 1-½ miles southwest and hydraulically downgradient of the Site. According to the NCDH and the Western Nassau Water District these wells are treated for volatile organic compounds via an air stripping tower. The work performed is summarized in the following reports: Site Characterization Report – Final (Ref.2); Site Characterization: May 2011 Results (Ref. 3); and Records Search and Hydrogeologic Evaluation-Final (Ref. 4). During the course of this prior investigation, groundwater borings were installed in the sidewalk in front of the Site. The results of water samples from borings GW-05 and GW-05A displayed elevated levels of TCA and its degradation products from a depth of 20 feet to 25 feet below grade immediately downgradient of the Site.

According to the Nassau County Land Viewer application, a web-based service, the Site is located in a commercial/industrial park in New Hyde Park. The Sites land use is identified as commercial and is used for storage, warehouses and distribution facilities. The Site is bound by a high school with athletic fields to the north (across Evergreen Avenue) which is identified for the use of wild, conservation lands and public parks. Also located adjacent to the north is supply well no.20/N000017. According to the NCDH and the Western Nassau Water District this well is treated for volatile organic compounds via an air stripping tower. The adjacent property use to the east (145-149 Denton Avenue) is identified for industrial and light manufacturing use. The adjacent properties to the south (across Falmouth Avenue) contain land use identified as commercial and is used for storage, warehouses and a distribution facility and industrial for light manufacturing and small factory buildings. Several of these businesses involve automotive repairs. The adjacent property to the west (across Gould Street) is identified as public services for water supply, and contains a municipal surface water drainage facility.

1.1 Property History and Previous Investigation

A Certificate of Occupancy for the Site was issued by the Town of North Hempstead Building Department (TNHBD) on December 5, 1962. The first tenant of the building was Zoe Chemical. Zoe Chemical utilized the Site to blend and package a number of different cleaning products. Records obtained at the Nassau County Department of Health and on Sanborn Fire Insurance maps indicate that numerous storage tanks were utilized for bulk chemical storage in the interior northeast portion of the building as well as the exterior yard on the eastern portion of the Site. Other chemicals used at Zoe Chemical included caustic soda, ethylene glycol, sulfuric acid, ammonia, alcohols, petroleum, chlorinated organics, and pesticides.

According to a building permit obtained from the Town of North Hempstead, the building was initially serviced by on-site cesspools. On June 13, 1963, The TNHBD issued a plumbing permit to connect the building to municipal sewers. However, based on the records reviewed, it appears that at the time only the sanitary lines from the bathrooms and sinks were connected to the municipal sewers at that time and that the industrial lines remained connected to either an on-site cesspool or wastewater holding tanks. The industrial waste lines were connected to the municipal sewer at a later date; a permit to connect was issued by the TNHBD dated June 23, 1987.

According to records located at the NCDH, “drywells in the building lead to a cesspool”. It is assumed that the reference to dry wells refers to interior floor drains. An inspection performed by the NCDH on October 4, 1982 identified two 500 gallon aboveground storage tanks containing TCA at the Zoe Chemical facility. Zoe Chemical applied for a NCDH Article XI Storage Permit on April 27, 1987. According to a 1987 NCDH tank registration form, Zoe Chemical had registered 40 ASTs of various quantities ranging from 200-gallons to 5,000-gallons. These ASTs contained floor wax, isopropanol, liquid petroleum, air freshener, spray starch, furniture polish, and fabric finish. On March 11, 1988, Nassau County Department of Public Works (NCDPW) observed a spill of a ‘milky white substance’ from the Zoe Chemical facility. Test results of the spilled material contained 72 ug/l of TCA.

On September 28, 1992, the heating oil underground storage tank at the property passed a tightness test. The tank was cleaned and abandoned in-place with inert composite on December 21, 1992. NCDH observed the abandonment and no further action was required. According to records it appears that Zoe Chemical vacated the property in 1993. Since then the Property has been utilized for commercial purposes.

NYSDEC contracted MACTEC to investigate possible sources of PCE and TCE groundwater contamination that have impacted two municipal supply wells in New Hyde Park, NY. As discussed in Section 1.0, these wells are approximately 1-½ miles southwest and hydraulically downgradient of the Site. The findings of work performed by MACTEC is summarized in the following reports: Site Characterization Report – Final (Ref. 2); Site Characterization: May 2011 Results; and Records Search and Hydrogeologic Evaluation-Final (Ref. 4). During the course of MACTEC’s investigations, groundwater borings were installed in the sidewalk in front of the Site. The results of water samples from borings GW-05 and GW-05A displayed elevated levels of TCA and its degradation products from a depth of 20 feet to 25 feet below grade immediately downgradient of the Site. Chloroethane (a breakdown product of TCA) was also detected in soil vapor sample SV-05 at 100,000 ug/m3.

1.2 Identification and Characterization of the Sources of Contamination

Based on the information outlined above, the main contaminants of concern are TCA and its degradation products. The primary source suspected for a possible release is the former cesspool(s) or wastewater holding tanks that serviced the building prior to Zoe Chemical’s connection to municipal sewers in June 1987.

2.0 Summary of Remedial Investigation Activities

2.1 Geophysical Survey

On March 29, 2013 a geophysical survey was conducted in the approximately 16,000 square foot exterior storage/parking area on the eastern portion of the Site as well as inside the building to trace former drain lines located along the building's northern wall and to investigate piping within a restored trench in the southeastern portion of the warehouse. The purpose of the interior investigation was to delineate former and current drain lines and pipes to determine if they are connected to the municipal sewer system or if they are connected to a former on-site leaching pool or wastewater holding tanks. The purpose of the exterior investigation was to identify the location of an abandoned underground oil tank, and any other below ground tanks or leaching structures associated with the former Zoe Chemical operations.

NAEVA Geophysics, Inc. conducted the electromagnetic survey using a Fisher TW-6 metal detector and the Ground Penetrating Radar (GPR) survey using a Software Noggin Smart Cart GPR. A total of nine suspect anomalies were identified during the GPR survey. Of the nine anomalies identified, two suspect former cesspools/wastewater holding tanks were identified in the southern portion of the exterior lot. The suspect holding tanks appeared to be 7-foot diameter pools. The remaining seven anomalies are believed to be either a block of reinforced concrete (labeled RC on Figure No. 2) or pieces of buried metal. The locations of two former abandoned underground storage tanks (USTs) were also confirmed. No other anomalies indicative of USTs were identified. Additionally, using a transmitter, radio frequency signals were conducted to trace former drain lines located along the building's northern wall and to investigate piping within a restored trench in the southeastern portion of the warehouse. Unfortunately, due to a fading radio frequency signal below the concrete surface of the warehouse, the results of this portion of the investigation were inconclusive. Figure 2 provides the findings from the geophysical investigation.

2.2 Soil Investigation

EXTERIOR SOIL BORINGS

On April 22 and 25, 2013 six exterior soil borings (SB-1 through SB-6) were advanced to 20-feet below grade utilizing the Geoprobe drilling system. Soil borings SB-1 through SB-4 were installed in the eastern portion of the Property, SB-5 was installed between the formerly abandoned USTs, and SB-6 was installed between the two suspect former cesspools/wastewater holding tanks. Soil samples were continuously screened and examined for evidence of contamination with a Photo-ionization detector (PID) and for evidence of chemical staining until the groundwater interface. PID readings ranged from 0.0 ppm in SB-1 through SB-5 to 23 ppm in SB-6 at 10 to 11 feet. The soil sample from the uppermost soil or the sample displaying the highest PID reading or evidence of staining was submitted for laboratory analysis. Soil samples in SB-1 through SB-5 were characterized as tan fill material composed of medium grain sand from zero to 20 feet. A slight odor and moist grey sand were identified in SB-6 from eight to 11 feet. Soil boring logs are located in Appendix A. Borings were then filled with sand and covered with similar pavement. The testing parameters included TCL Volatile Organic Compounds (VOCs) via EPA Method 8260C, TCL Semi - Volatile Organic Compounds (SVOCs) via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and total TAL metals via Methods SW6010 and SW7471B. VOC samples were placed into laboratory-issued 2 oz. bottles using a new wood tongue depressor or similar instrument until the sample bottle is filled. Samples were collected by utilizing Geoprobe's, direct push macro core sample sleeves. Samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP certified laboratory. All samples were uniquely identified and all information associated with the samples were recorded utilizing standard chain-of-custody sampling protocols. In addition the following QA/QC samples were collected during the soil sampling event: one trip blank, one field blank, one duplicate sample, one matrix spike and one matrix spike duplicate. A drawing depicting the locations of the soil borings is included as Figure 3. On May 28, 2013, the two drums containing the excess drill cuttings were picked up and disposed of at Republic Environmental Systems in Hatfield, Pennsylvania (a copy of the disposal manifest is included in Appendix B).

One soil sample was collected at a depth of 0 to 2 feet from borings SB-1 through SB-5. Two soil samples were collected at a depth of 8 to 9 feet and 10 to 11 feet from boring SB-6. Based on the Property being zoned and utilized for commercial purposes the soil samples were analyzed and compared to the 6NYCRR Part 375 NYSDEC Soil Cleanup Objectives (SCOs) for commercial use (Ref. 5) and NYSDEC CP-51 SCOs for commercial use (Ref. 9).

The results of the chemical analysis of the six exterior soil borings indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCO in SB-1 through SB-6.
- SVOCs – No individual SVOCs were detected exceeding their Part 375 commercial use SCO in SB-1 through SB-6. Total organics were detected at a combined concentration greater than its NYSDEC CP-51 SCO of 500,000 ug/kg in SB-1.
- Pesticides – No pesticides were detected exceeding their Part 375 commercial use SCO in SB-1 through SB-5. Dieldrin was detected in SB-6 8 to 9 feet and 10 to 11 feet, and aldrin was detected in SB-6 10 to 11 feet exceeding their commercial use SCO.
- PCBs – No PCBs were detected in SB-1 through SB-6.
- Metals – No metals were detected exceeding their Part 375 commercial use SCO in SB-2 through SB-5 and SB-6 10 to 11 feet. Cadmium and copper were detected in SB-1, and mercury was detected in SB-6 8 to 9 feet exceeding their Part 375 commercial use SCO.

On October 8, 2013, while installing shallow groundwater boring SGB-1 (explained in further detail in section 2.2) an elevated PID reading (300 ppm) and black soil with an odor was encountered at 10 to 12 feet below grade. This boring was installed near the former abandoned underground storage tanks. Based on this observation a sample was obtained.

The results of the chemical analysis of soil boring SGB-1 indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCO in SGB-1.
- SVOCs - No SVOCs were detected exceeding their Part 375 commercial use SCO in SGB-1.
- Pesticides –. Dieldrin was detected in SGB-1 exceeding its commercial use SCO.
- PCBs – No PCBs were detected in SGB-1.
- Metals – Mercury was detected in SGB-1 exceeding its Part 375 commercial use SCO.

A summary of the exterior soil boring results compared to the 6NYCRR Part 375 NYSDEC Soil Cleanup Objectives (SCOs) for unrestricted and commercial use (Ref. 5) are included on Table 1 through 5. A drawing depicting the TCA concentrations in the soil samples is included as Figure 4.

The laboratory data was reviewed by a qualified Data Validator and a Data Usability Summary Report (DUSR) was prepared (Appendix F). It is important to note that the data from soil boring SB-5 was rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. This is based on the lack of consistency between the sample from SB-5 at 0-2 feet and its duplicate SB-X.

INTERIOR SOIL BORINGS

On September 18, 2013, four shallow interior soil borings (ISB-1, ISB-3, ISB-4, and ISB-5) were advanced to five feet below grade utilizing the Geoprobe drilling system in the former tank storage area located in the northeastern portion of the warehouse and the former flammable storage room. Soil samples in ISB-1 through ISB-5 were characterized as tan fill material composed of medium grain sand from zero to five feet. Soil boring logs are located in Appendix A. Sub-slab soil samples were screened at all four locations and examined for evidence of contamination with a PID and for evidence of chemical staining. As no contamination was observed, a soil sample was obtained from only one boring (ISB-1 0-2 feet) to document sub-slab soil conditions. A fifth soil boring was conducted adjacent to the former drain lines identified along the northern wall of the warehouse. The boring was advanced five feet below grade with the collection of a soil sample for chemical analysis (ISB-2 at a depth of 0 to 2 feet). Borings were then filled with sand and covered with concrete. The testing parameters included TCL VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and total TAL metals via Methods SW6010 and SW7471B. Samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP - certified laboratory. All samples were uniquely identified and all information associated with the samples were recorded utilizing standard chain-of-custody sampling protocols. QA/QC requirements were combined with samples obtained from the exterior soil borings. A drawing depicting the locations of the shallow interior soil borings is included as Figure 3.

The results of the chemical analysis of the two interior soil borings indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCOs in ISB-1 and ISB-2.
- SVOCs - No SVOCs were detected exceeding their Part 375 commercial use SCOs in ISB-1 and ISB-2.
- Pesticides – No pesticides were detected exceeding their Part 375 commercial use SCOs in ISB-1 and ISB-2.
- PCBs – No PCBs were detected in ISB-1 and ISB-2.
- Metals – No metals were detected exceeding their Part 375 commercial use SCOs in ISB-1 and ISB-2.

A summary of the interior soil boring results compared to the 6NYCRR Part 375 NYSDEC SCOs for unrestricted and commercial use (Ref. 5) and NYSDEC CP-51 SCOs for commercial use (Ref. 9) and are included on Table 1 through 5. A drawing depicting the TCA concentrations of the soil samples is included as Figure 4.

STORM DRAINS

On April 23, 2013, two exterior storm drains (SD-1 and SD-2) located near the garage door on the east side of the building were accessed to determine if they are connected to the municipal sewer system or if they contain sediment bottoms that drain to the earth. During the geophysical investigation, the area surrounding the storm drains was scanned for the presence of subsurface piping. Based on the initial inspection and the amount of material that was inside the storm drains, it appeared that the drains had sediment bottoms, though as discussed below, subsequent inspection disclosed that they have solid bottoms. Therefore, a soil sample was collected from each drain for chemical analysis by advancing a hand-operated stainless steel auger in the soil at the bottom of the drain. A sample was obtained from 1 to 2 feet in SD-1 and 3 to 4 feet in SD-2. The testing parameters included TCL VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and total TAL metals via Methods SW6010 and SW7471B. The samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP-certified laboratory. All samples were uniquely identified and all information associated with the samples was recorded utilizing standard chain-of-custody sampling protocols. QA/QC

requirements were combined with samples obtained from the exterior soil borings. The locations of the storm drains are depicted on Figure 3.

The results of the chemical analysis of the two storm drains indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCOs in SD-1. 1,1,1 – Trichloroethane was detected in SD-2 at 9,290,000 ug/kg, exceeding its Part 375 commercial use SCO.
- SVOCs - No SVOCs were detected exceeding their Part 375 commercial use SCOs in SD-1 or SD-2.
- Pesticides – No pesticides were detected exceeding their Part 375 commercial use SCOs in SD-1 or SD-2.
- PCBs – No PCBs were detected in SD-1 or SD-2.
- Metals – No metals were detected exceeding their Part 375 commercial use SCOs in SD-1 or SD-2.

A summary of the storm drain results compared to the 6NYCRR Part 375 NYSDEC SCOs for unrestricted and commercial use (Ref. 5) are included on Table 6 through 10.

Based on the results of the storm drain sampling, it was confirmed that the structures were impacted with 1,1,1-TCA. On July 22, 2013, storm drains SD-1 and SD-2 were cleaned out using shovels, a shop vacuum, and a high pressure jet. All liquid was placed in 55-gallon drums to be removed at a later date. Upon cleaning the drains out, a 4-inch PVC pipe was identified. A video inspection confirmed that the pipe only connects SD-1 to SD-2. It was also confirmed that both of the drains have solid bottoms. Based on this investigation, it appears that storm drains SD-1 and SD-2 were strategically placed in order to bypass the garage door on the eastside of the building in order to prevent flooding inside the subject Property's warehouse. On August 28, 2013, based on the results of the laboratory analysis, CA RICH obtained an approval letter from the Nassau County Department of Public Works to dispose of the drummed storm drain waste water into the County's sanitary sewer system (a copy of this approval letter is provided in Appendix B). As the underground structures contain solid bottoms, no sediment was located in the storm drains. Therefore, no manifests are provided as no sediment was disposed of from the structures.

Former Sanitary System

On April 24, 2013 a backhoe was mobilized to the Site in order to access the former sanitary system that was identified in the geophysical investigation. Upon removing the asphalt, the two below grade concrete cesspool/wastewater holding tank covers were identified. Once the covers were removed CA RICH was able to access the two, 7-foot diameter pools, designated S-1 and S-2. The presence of a solid bottom indicates that these are not leaching pools and were likely used as holding tanks. However, as the perched water sample contained detections of contaminants similar to those detected in the soil from the sanitary structures some degree of leakage from the pools may have occurred. On April 25, 2013 a Geoprobe drilling system was utilized to obtain a sample from each of the pools. The Geoprobe drilling identified a solid bottom in sanitary pool S-1 at seven feet and at five feet in S-2. Cesspool cross-sections are depicted on Figures 5 and 6. Although no PID readings were identified, the pools had a strong septic odor and contained a sludgy black material. The structures appear to have been backfilled with soil, and therefore, observations detailing the bottom of the structures could not be made. One sample was obtained from each of the pools at the deepest depth above the pool bottoms. The testing parameters included TCL VOCs via EPA Method 8260C. The samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP-certified laboratory. All samples were uniquely identified and all information associated with the samples were recorded utilizing standard chain-of-custody sampling protocols. Additionally, both sanitary pool samples were also obtained by the NYSDEC. The testing parameters included TCL VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and total TAL metals via Methods SW6010B. It is important to note that the sample collected by NYSDEC that is identified as "S-1" was collected from the structure located closest to the on-site building. Whereas the sample collected by CA RICH and identified as "S-2" was collected from the structure located closest to the on-site building. The locations of the two sanitary pools are depicted on Figure 3.

CA RICH's sample results of the chemical analysis of the two sanitary pools indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCOs in S-1 or S-2. However, S-1 contained ethylbenzene, toluene, and xylenes. S-2 (the pool closest to the building) contained TCA at a concentration of 1,110 ug/kg.

A summary of CA RICH's septic results compared to the 6NYCRR Part 375 NYSDEC SCOs for unrestricted and commercial use (Ref. 5) are included on Table 11.

NYSDEC sample results of the chemical analysis of the two sanitary pools indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 commercial use SCOs in S-2. 1,1,1 – Trichloroethane was detected in S-1 (the pool closest to the building) at 1,000,000 ug/kg, exceeding its Part 375 commercial use SCO.
- SVOCs - No SVOCs were detected exceeding their Part 375 commercial use SCOs in S-1 or S-2.
- Pesticides – No pesticides were detected exceeding their Part 375 commercial use SCOs in S-1 or S-2.
- PCBs – No PCBs were detected in S-1 or S-2.
- Metals – No metals were detected exceeding their Part 375 commercial use SCOs in S-1 or S-2.

A summary of NYSDEC's septic results compared to the 6NYCRR Part 375 NYSDEC SCOs for unrestricted and commercial use (Ref. 5) are included on Tables 12 through 16.

2.3 Soil Vapor and Indoor Air Testing

On September 18, 2013, four exterior soil vapor points were installed to eight feet below grade in the eastern parking lot and lumber storage area using a Geoprobe™, designated SV-1 through SV-4. PID readings ranged from 0.0 ppm in SV-1, SV-2 and SV-4 to 366 ppm in SV-3 (5 to 8 feet). As the soil from SV-3 (5 to 8 feet) had a high PID reading and an odor, a soil sample designated SSB (5 - 8 feet) was obtained. The soil vapor points were constructed of a stainless steel screen connected to stainless steel ¼-inch tubing. The annular space around the screened zone was filled with clean No. 2 Morie sand. Soil boring logs with soil vapor point construction and installation details are located in Appendix A. Prior to sampling, three tubing volumes (308 mils) were purged from each exterior soil vapor point. An SKC Pocket Pump™, which includes both a flow meter and a flow totalizer, was used to assure that the purge rate did not exceed 0.2 liters per minute; and that the required volume was purged from the sample point. In addition, four interior sub-slab soil vapor points were installed inside the warehouse, designated SSV-1 through SSV-4. The interior points were installed just beneath the bottom of the concrete building slab using a hand-held hammer drill with a 1-inch diameter bit. The points were constructed of a

stainless steel screen connected to stainless steel ¼-inch tubing and completed with a surface seal consisting of beeswax. The points were completed with temporary caps and were removed after the testing was completed. During the installation of each point, soil samples were collected with a 1-inch diameter sampler and screened for evidence of contamination with a PID. No PID readings were identified in SSV-1 through SSV-4. Borings were filled with sand and covered with concrete. Soil logs with sub-slab vapor point construction and installation details are located in Appendix A. Prior to sampling, approximately three tubing volumes (96 mils) were purged from each interior sub-slab soil vapor point. An SKC Pocket Pump™, which includes both a flow meter and a flow totalizer, was used to assure that the purge rate did not exceed 0.2 liters per minute; and that the required volume was purged from the sample point.

On September 19, 2013 the soil vapor points were sampled in accordance with New York State Department of Health's (NYSDOH) prevailing Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 (Ref. 6). In addition, the soil vapor samples were chemically analyzed using the procedures and protocols described in the Sampling, Sample Preparation, and Analysis Requirements of EPA Compendium Method T0-15. A three-way "T" connector valve assembly was connected to a vacuum pump and a pre-cleaned six-liter SUMMA® air sampling canister. Prior to collecting the soil vapor samples, the sample tubing was purged using a vacuum pump set at a rate of approximately 0.2 liters per minute. A helium tracer gas was used to enrich the atmosphere around the sampling location. The tracer gas verifies that interior ambient air is not inadvertently drawn down into the soil vapor sample. Both the purge volume from the sampling tube and the helium-enriched air within the container were screened for the tracer gas using a Gowmac® Model 21-250 gas leak detector.

Following the purging and tracer gas verification steps, the soil vapor samples were collected using the SUMMA® canister set to fill at a rate of not more than 0.2 liters per minute with an approximate fill time of 2-hours. The samples were analyzed for VOCs using USEPA Method T0-15 by a NYS-certified laboratory.

Concurrent with the interior sub-slab vapor testing, one indoor air sample (IA-1) and one ambient air sample (AA-1) were obtained from the showroom for comparison purposes to evaluate vapor intrusion in accordance with NYSDOH guidelines. An inventory of chemicals used at the facility was also prepared (see table below). Each indoor air and ambient air stainless steel sampling canister required by Method T0-15 was specially pre-calibrated and prepared at Accutest Laboratories of Dayton, New Jersey, a New York State-certified laboratory, as subcontracted to CA RICH, to collect six liters of air for chemical analyses with an 8-hour fill time. One field duplicate was also collected for QA/QC purposes.

All sample analyses is reported using NYSDEC ASP Category B deliverables. The laboratory data was reviewed by a qualified Data Validator and a DUSR was prepared. A drawing depicting the locations of the soil vapor samples is included as Figure 3.

The results of the soil vapor sampling indicated that the concentration of TCA ranged from 11 ug/m³ in SV-3 to 3,260 ug/m³ in SV-4. There are no standards for soil vapor beyond the footprint of a building. Acetone, benzene, chloromethane, cyclohexane, dichlorodifluoromethane, ethanol, ethylbenzene, ethyl acetate, 4-ethyltoluene, heptane, hexane, isopropyl alcohol, methyl ethyl ketone, styrene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, tetrachloroethylene, tetrahydrofuran, toluene, trichloroethylene, trichlorofluoromethane, m&p-xylene, and o-xylene were detected at low concentrations in the indoor air sample. Additionally, similar compounds were detected in the ambient air. TCA was not detected in the ambient air sample. The results are summarized on Table 17 and on Figure 7.

The results for the sub-slab vapor were compared to the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Based on the decision matrices, the concentration of TCA in SSV-1 was 182,000 ug/m³ and SSV-2 was 18,800 ug/m³ which are both in the "Mitigation" range. The sub-slab vapor at the SSV-3 location concentration of TCA was 31 ug/m³ which is in the "No Further Action" range. Additionally, the sub-slab vapor concentration of TCA in SSV-4 was 400 ug/m³ which is in the "Monitor" range. The sample results are summarized on Table 18 and Figure 7.

A Product Inventory was conducted as part of the soil vapor investigation. A NYSDOH Indoor Air Quality Questionnaire is attached as Appendix C.

2.4 Groundwater Investigation

Groundwater Monitoring Well Installation and Sampling

On April 22, 23, 24, and 25, 2013, four permanent groundwater monitoring wells (MW-1 through MW-4) were installed utilizing a Geoprobe drill rig to the shallow water table to determine the depth to groundwater and direction of groundwater flow as well as the quality of the uppermost groundwater presently occurring beneath the Site (a Groundwater Flow Map is depicted on Figure 8). Based on the uneven topography of the Site, the depth of the shallow water ranged from 25 feet below grade in MW-3 to 35 feet below grade in MW-1. Monitoring wells MW-1 through MW-3 were installed 10 feet through the shallow groundwater table into the uppermost zone of saturation. During the installation of monitoring well MW-4, refusal was met several times at 16 feet. Additionally, the soil was saturated at ten feet. This well was installed just south of the two former cesspools, and was installed with a five foot screen from 10 to 15 feet below grade.

During drilling, soil samples were continuously collected and examined for evidence of contamination with a PID and for evidence of chemical staining. No PID readings were identified while installing these wells. Well construction for MW-1 through MW-3 consisted of 15 feet of two-inch diameter pre-pack well screen and approximately 15 feet of two-inch diameter schedule 40 PVC riser. Each well was finished with a bentonite seal, a watertight j-plug and eight-inch flush mounted well protection box. All excess drill cuttings were drummed and sampled for proper off-site disposal. Based on refusal being met several times in the vicinity of the two former cesspools, 25 feet deep probes without soil samples were attempted ten feet west, 10 feet north, and 10 feet east of the cesspools to delineate the dimensions of a subsurface obstruction. As the probes were able to drill to 25 feet the impediment appears to be approximately 30 feet by 40 feet. A drawing illustrating the locations of the monitoring wells is included as Figure 3; and soil logs with monitoring well construction and installation details are located in Appendix A.

Immediately following the installation of each well, the wells were developed and all purge water was containerized for proper off-site disposal. On May 14, 2013, a groundwater sample was collected from each well utilizing low-flow sampling technology and the elevations of the top of the well casings were surveyed by a NYS-Licensed Surveyor to the nearest 0.01 of a foot. All monitoring well samples were sampled in accordance with EPA's Low-Flow (minimal drawdown) Groundwater Sampling Procedures. Groundwater parameters (e.g., turbidity, pH, temperature, conductivity, etc.) were obtained during sampling. Copies of the Water Quality Measurement Logs are attached as Appendix D. On May 23, 2013, based on the results of the laboratory analysis, CA RICH obtained an approval letter from the Nassau County Department of Public Works to dispose of the drummed purge water into the County's sanitary sewer system (a copy of this approval letter is provided in Appendix B). A data logger was placed in each well, with the exception of MW-4, to record the depth to groundwater over a two day period between September 18 and 20, 2013. The results of the data logger indicate that the depth to water in wells MW-1 through MW-3 decreased between 0.043 and 0.383 feet. The data logger results are included as Appendix E. In addition, the following samples were collected for QA/QC purposes: one trip blank, one field blank, one duplicate sample, one matrix spike and one matrix spike duplicate. Groundwater samples were collected directly from new poly tubing into laboratory-issued containers. Samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP- certified laboratory. All samples were uniquely identified and all information associated with the samples was recorded utilizing standard chain-of-custody sampling protocols.

Groundwater samples from monitoring wells MW-1 through MW-4 were analyzed for the Target Compound List (TCL) of VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and the total and dissolved Target Analyte List (TAL) of metals via Methods SW6010 and SW7471B. As MW-4 did not contain enough water, it was only analyzed for VOCs via EPA Method 8260C and SVOCs via EPA Method 8270. All analysis was reported using NYSDEC ASP Category B deliverables. The laboratory data was reviewed by a qualified Data Validator and DUSR was prepared (Appendix F).

The groundwater samples were analyzed and compared to the NYSDEC Technical and Operational Guidance Series (TOGS) guidance (Ref. 7). The results of the chemical analysis of the four monitoring wells indicate the following:

- VOCs - No VOCs were detected exceeding their TOGS standard in monitoring wells MW-1 and MW-3. Tetrachloroethene was detected in MW-2 exceeding its TOGS standard. Several VOCs were detected in MW-4 exceeding its TOGS standard including TCA with a detection of 962 ug/l.
- SVOCs - No SVOCs were detected in MW-1 or MW-2. No SVOCs were detected exceeding their TOGS standards in MW-3. Several SVOCs were detected in MW-4 exceeding its TOGS standard.
- Pesticides – No pesticides were detected in MW-2 or MW-3. Dieldrin was detected in MW-1 exceeding its TOGS standard. MW-4 was not analyzed for pesticides.
- PCBs – No PCBs were detected in MW-1, MW-2, or MW-3. MW-4 was not analyzed for PCBs.
- Metals – Manganese and sodium were detected exceeding their TOGS standards in MW-1 and MW-2. Sodium was detected exceeding its TOGS standards in MW-3. MW-4 was not analyzed for metals.

A summary of the monitoring well results are included on Tables 19 through 22.

Deep Groundwater Profile Borings

On October 6, 7, 8, 9, and 10, 2013 five deep groundwater profile borings (DGB-1 through DGB-5) were installed. DGB-1, DGB-2, and DGB-5 were installed to 85 feet below grade, and DGB-3 and DGB-4 were installed to 55 feet below grade utilizing the Geoprobe drilling system. DGB-1 was installed on Falmouth Avenue, downgradient of the former septic system. The locations of all of the deep groundwater profile borings are illustrated on Figure 3. Soil samples were continuously screened and examined for evidence of contamination with a PID and visually for evidence of chemical staining until the groundwater interface. Soil samples were not screened in the borings that were installed adjacent to the previously installed monitoring wells (DGB-1, DGB-4, and DGB-5), as the soil was already characterized and screened. No PID readings were identified in the soil samples screened from DGB-2 and DGB-3. Groundwater parameters (e.g., turbidity, pH, temperature, conductivity, etc.) were obtained from all borings prior to sampling. Soil logs for DGB-2 and DGB-3 are located in Appendix A. Groundwater sample collection commenced at 85 feet in borings DGB-1, DGB-2, and DGB-5; and at 55 feet in borings DGB-3 and DGB-4. All borings obtained samples at 10-foot intervals for TCL VOCs only. Samples were collected using new poly tubing and a stainless steel check valve lifted up and down to achieve a flow of water. Each sample interval was purged approximately three tubing volumes prior to sampling. The uppermost water samples in DGB-1, DGB-2, and DGB-3 were submitted for laboratory and analyzed for TCL VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and the total and dissolved TAL metals via Methods SW6010 and SW7471B. The samples were field filtered using Single Sample®, disposable groundwater filter capsule's or an equivalent field filter.

Samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP-certified laboratory. All samples were uniquely identified and all information associated with the samples was recorded utilizing standard chain-of-custody sampling protocols. In addition, the following VOC samples were collected for QA/QC purposes: two trip blanks, two field blanks, two duplicate samples, two matrix spikes and two matrix spike duplicates. One field blank, one duplicate sample, one matrix spike and one matrix spike duplicates were also collected for SVOCs, pesticides, PCBs, total and dissolved metals. After completing each of the groundwater profiles, the boring was sealed from the bottom up with grout. A drawing depicting the locations of the deep groundwater borings is included as Figure 3.

The results of the chemical analysis of the five deep groundwater profile borings indicate the following:

- VOCs – Acetone (a common laboratory agent) and was detected in DGB-1 at 70 feet, and chloroethane was detected in DGB-1 at 70, 80, and 85 feet exceeding its TOGS standards. No VOCs were detected in DGB-2 exceeding its TOGS standards. Chloroform was detected in DGB-3 at 35 feet exceeding its TOGS standard. Toluene was detected in DGB-4 at 35 feet exceeding its TOGS standard. Tetrachloroethene was detected in DGB-5 at 30 feet slightly exceeding its TOGS standard.
- SVOCs - No SVOCs were detected exceeding their TOGS standards in the uppermost samples from DGB-1 through DGB-3. Borings DGB-4 and DGB-5 were not analyzed for SVOCs.
- Pesticides – Dieldrin was detected in the uppermost sample from DGB-1 exceeding its TOGS standard. No pesticides were detected in the uppermost samples from DGB-2 and DGB-3. Borings DGB-4 and DGB-5 were not analyzed for pesticides.
- PCBs – No PCBs were detected in the uppermost sample from DGB-1 through DGB-3. Borings DGB-4 and DGB-5 were not analyzed for PCBs.
- Metals – Iron, manganese, and sodium were detected in the uppermost sample from DGB-1 exceeding their TOGS standards. Sodium was detected in the uppermost sample from DGB-2 exceeding its TOGS standard. Manganese and sodium were detected in the uppermost sample from DGB-3 exceeding their TOGS standards. Borings DGB-4 and DGB-5 were not analyzed for metals.

A summary of the deep groundwater profile boring results are included on Tables 23 through 26.

SHALLOW GROUNDWATER BORINGS

On October 8th and 9th, 2013, two shallow groundwater borings (SGB-1 and SGB-2) were installed to 30-feet below grade utilizing the Geoprobe drilling system. SGB-1 was installed downgradient of the formerly abandoned USTs, and SGB-2 was installed at the rolling gate located on Falmouth Avenue. The locations of all of the shallow groundwater borings are illustrated on Figure 3. Soil samples were continuously screened and examined for evidence of contamination with a PID and for evidence of chemical staining until the groundwater interface. Soil logs are located in Appendix A. PID readings ranged from 0.0 ppm in SGB-2 to 300 ppm in SGB-1 10 to 12 feet. As the soil from SGB-1 10 to 12 feet had a high PID reading and an odor, a

soil sample designated SGB-1 (10-12 feet) was obtained. Each sample interval was purged approximately three tubing volumes prior to sampling. Groundwater parameters (e.g., turbidity, pH, temperature, conductivity, etc.) were obtained prior to sampling. Groundwater sample collection included TCL VOCs via EPA Method 8260C, TCL SVOCs via EPA Method 8270, pesticides via EPA Method 8081, PCBs via EPA Method 8082, and the total and dissolved TAL metals via Methods SW6010 and SW7471B. Groundwater samples were collected in the same manner described in the previous section, directly from new tubing into laboratory-issued containers. After completing the groundwater profile, the boring was sealed from the bottom up with grout. Samples were stored on ice pending shipment to Accutest Laboratories of Dayton, New Jersey, a New York State ELAP certified laboratory. All samples were uniquely identified and all information associated with the samples was recorded utilizing standard chain-of-custody sampling protocols. QA/QC requirements were combined with samples obtained from the shallow groundwater wells. A drawing depicting the locations of the shallow groundwater borings is included as Figure 3.

The results of the chemical analysis of the two shallow groundwater borings indicate the following:

- VOCs – TCA was detected in SGB-1 at 33.1 ug/l, exceeding its TOGS standard. No VOCs were detected in SGB-2 exceeding its TOGS standards.
- SVOCs - No SVOCs were detected exceeding their TOGS standards in SGB-1 or SGB-2.
- Pesticides – Dieldrin was detected in SGB-1 exceeding its TOGS standard. No pesticides were detected in SGB-2 exceeding its TOGS standards.
- PCBs – No PCBs were detected in SGB-1 or SGB-2.
- Metals – Iron, manganese, and sodium were detected in SGB-1 exceeding their TOGS standards. Sodium was detected in SGB-2 exceeding its TOGS standard.

A summary of the shallow groundwater profile boring results is included on Tables 23 through 26 (page 5 of 5). TCA concentration in the water table is depicted on Figure 9. Additionally, Figures 11, 12, and 13 identify the groundwater cross-section locations and their concentrations of TCA.

3.0 Qualitative Human Exposure Assessment

3.1 Introduction

The Site investigation and cleanup is being administered under an administrative consent order and the NYSDEC, State Superfund program. As part of the State Superfund process, this Qualitative Exposure Assessment (EA) is performed to determine whether the property poses an existing or future health hazard to the Site's exposed or potentially exposed population. The available sampling data for the environmental media was reviewed to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This EA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1).

The five elements of an exposure pathway are: 1) a contaminant source; 2) contaminant release and transport mechanisms; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future.

3.2 Contaminants of Concern

General Background - Based upon all background information and sampling data, the primary contaminants of concern include TCA, and TCA degradation products. However, some secondary contaminants such as VOCs, SVOCs, pesticides, and metals were also detected above their established standards.

Regulatory Criteria - The concentrations of the media and contaminants of concern found at the Site were compared to the following standards or guidance values:

- Soil - 6NYCRR Part 375 NYSDEC Protection of Groundwater, Commercial, and Unrestricted Soil Cleanup Objectives. (Ref. 5);
- Soil Vapor - NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in NYS (Ref. 6); and
- Groundwater - Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC (Ref. 7).

3.3 Media of Concern

Soil – The result of our evaluation of the laboratory data indicates that soil is a medium of concern. It is important to note, that there were numerous chlorinated and petroleum VOC detections above Part 375 Unrestricted Use SCOs. However, the following compounds of concern were detected above the Part 375 Commercial Use SCOs in the on-site soil.

<u>Compounds</u>	<u>Highest Detection</u>	<u>6 NYCRR Part 375 Commercial Use SCOs</u>

VOCs

1,1,1- Trichloroethane	1,000,000 ug/kg	500,000 ug/kg

(There was a detection of 9,290,000 ug/kg of 1,1,1,- Trichloroethane from the bottom of storm drain SD-2. However, this sediment was removed during the site characterization as described in Section 2.2 of this report.)

Pesticides

Aldrin	4,220 ug/kg	680 ug/kg
Dieldrin	16,700 ug/kg	1,400 ug/kg

Metals

Cadmium	15.9 mg/kg	9.3 mg/kg
Copper	736 mg/kg	270 mg/kg
Mercury	36.7 mg/kg	2.8 mg/kg

Soil Vapor – The results of the laboratory data indicate that soil vapor is a medium of concern. Although there are no standards for soil vapor, the NYSDOH Guidance for Evaluating Soil Vapor Intrusion provides guidance regarding these sample results.

<u>Compounds</u>	<u>Highest Detection</u>

VOCs

carbon tetrachloride	19 ug/m ³
1,1-Dichloroethylene	271 ug/m ³
cis-1,2-Dichloroethylene	615 ug/m ³
1,1,1-Trichloroethane	182,000 ug/m ³
Tetrachloroethylene	6,470 ug/m ³
Trichloroethylene	5,750 ug/m ³
Vinyl chloride	1,150 ug/m ³

Groundwater – The results of our evaluation of the laboratory data indicate that groundwater is a medium of concern. The following compounds were detected above NYSDEC TOGS in groundwater.

<u>Compounds</u>	<u>Highest Detection</u>	<u>NYSDEC TOGS Groundwater Standard/Guidance Value</u>
VOCs		
Acetone	235 ug/L	50 ug/L
Benzene	21.9 ug/L	1 ug/L
Chloroethane	1,630 ug/L	5 ug/L
Chloroform	23.7 ug/L	7 ug/L
1,1-Dichloroethane	1,790 ug/L	5 ug/L
1,2-Dichloroethane	3.0 ug/L	0.6 ug/L
1,1-Dichloroethene	42.5 ug/L	5 ug/L
cis-1,2- Dichloroethene	97.1 ug/L	5 ug/L
trans-1,2- Dichloroethene	14.5 ug/L	5 ug/L
Ethylbenzene	47.1 ug/L	5 ug/L
Isopropylbenzene	6.3 ug/L	5 ug/L
Methylene chloride	69.1 ug/L	5 ug/L
Tetrachloroethene	13.2 ug/L	5 ug/L
Toluene	346 ug/L	5 ug/L
1,1,1-Trichloroethane	962 ug/L	5 ug/L
1,1,2-Trichloroethane	10.3 ug/L	1 ug/L
Trichloroethene	198 ug/L	5 ug/L
Vinyl chloride	45.5 ug/L	2 ug/L
m,p-Xylene	72.6 ug/L	5 ug/L
o-Xylene	38.8 ug/L	5 ug/L
Xylene (total)	111 ug/L	5 ug/L
SVOCs		
3&4-Methylphenol	200 ug/L	1 ug/L
Phenol	107 ug/L	1 ug/L
bis(2-Chloroethyl)ether	15 ug/L	1 ug/L
Di-n-butyl-phthalate	260 ug/L	50 ug/L
Diethyl phthalate	195 ug/L	50 ug/L
bis(2-Ethylhexyl)phthalate	16.5 ug/L	5 ug/L
Pesticides		
Dieldrin	0.22 ug/L	0.004 ug/L
Metals		
Iron	12,800 ug/L	300 ug/L
Manganese	1,810	300
Sodium	170,000 ug/L	20,000 ug/L

3.4 Potential Sensitive Receptors

On-Site Receptors - Potential on-site receptors include: commercial building occupants, store customers, construction workers and area residents:

1. Commercial Business Building Occupants – existing and future
2. Building Construction/Renovation Workers – existing and future
3. Pedestrians, Trespassers, Cyclists – existing and future
4. Area Residents – existing and future

Off-Site Receptors - Potential off-site receptors within a 0.25-mile radius of the Site include: commercial building occupants, construction workers and area residents:

1. Commercial Business Building Occupants – existing and future
2. Building Construction/Renovation Workers – existing and future
3. Pedestrians, Trespassers, Cyclists – existing and future
4. Area Residents – existing and future

3.5 Exposure Route

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil or building materials.

3.6 Exposure Pathways

Based on the current and projected future use of this Site, the following pathways will be evaluated in this Exposure Assessment:

1. Migration of subsurface VOC soil vapors into neighboring structures and inhalation of vapors.
2. Migration of VOC contaminated groundwater, off-gassing of VOC vapors into neighboring structures and inhalation of vapors.
3. Migration of VOC contaminated groundwater and ingestion by area residents and workers.
4. Dermal contact by future construction workers in the area of the former cesspool/wastewater holding tanks.

3.7 Exposure Assessment Conclusions and Recommendations

Based upon this analysis, there is an existing potential for soil vapor impacted with TCA below the slab of the existing structure. However, this condition can be addressed with a combination of soil vapor extraction (SVE) and sub-slab depressurization system (SSDS) including a combination of fans, a visual alarm and scheduled monitoring. Additionally, there is also a potential for soil and groundwater to be media of concern. Most of the exceedances in the soil and groundwater were obtained from the samples located in the area of the former cesspools/wastewater holding tanks. If any excavation activities are performed at the Site, there will be a potential exposure pathway from contaminated surface and subsurface soil to construction workers as a result of on-site construction/excavation activities. On-site construction workers potentially could ingest, inhale or have dermal contact with any exposed impacted fill or soils. Although any on-site excavation activities are not expected to encounter groundwater, if any of the “perched” water at the Site is encountered, there would be a potential exposure pathway from the groundwater to on-site construction workers. On-site construction workers could potentially inhale or have dermal contact with the contents of the cesspool/wastewater holding tanks and any soil that is saturated with contaminated groundwater, vapors off-gassing from the groundwater, and/or the contaminated groundwater itself. As the off-site downgradient groundwater boring (DGB-1) did not have any detections in the shallow samples above its respective standards, it does not appear that off-site groundwater is a concern. Additionally, an SVE system should be designed, installed, and operated. Once the system is in operation the Site should be re-evaluated to determine if off-site soil vapor is a concern.

4.0 Conclusions and Recommendations

4.1 Conclusions

- The subsurface encountered at the Site consisted of fill material composed of medium grain sand to 19 feet followed by light brown to tan medium grain sand.
- The GPR survey identified two former cesspools/wastewater holding tanks located in the southern portion of the Site. Additionally, the former drain lines were traced along the building's northern wall and to investigate piping within a restored trench in the southeastern portion of the warehouse. Unfortunately, due to a fading radio frequency signal below the concrete surface of the warehouse, the results of this portion of the investigation were inconclusive.
- The two former cesspools/wastewater holding tanks were accessed and revealed two 7 foot-diameter pools with solid bottoms filled with sediment and sludge. Although the soil sampling performed within the former cesspools did not exceed their respective Part 375 Commercial SCOs in the CA RICH samples, the samples obtained by NYSDEC identified TCA in S-1 (the pool closest to the building) at 1,000,000 ug/kg, exceeding its Part 375 commercial use SCO. These elevated concentrations of TCA within the samples may be attributable to a

release or disposal of hazardous waste at the Site. Additionally, high PID readings, and black soil was encountered within the pools.

- Storm drains SD-1 and SD-2 were sampled and found to have elevated levels of TCA. These elevated concentrations of TCA within the samples may be attributable to a release or disposal of hazardous waste at the Site. Upon cleaning out the drains, a 4-inch PVC pipe was identified. A video inspection confirmed that the pipe only connects SD-1 to SD-2. It was also confirmed that both of the drains have solid bottoms.
- Soil sampling performed at this Site has not revealed detections of TCA above Part 375 Commercial SCOs either below the floor of the Site building or in the subject Property lot. No other VOCs or SVOCs exceeded their respective Part 375 Commercial SCOs. However, total organics (SVOCs) were detected at a combined concentration greater than its NYSDEC CP-51 SCO of 500,000 ug/kg in SB-1. The exceedances of pesticides and metals that were identified exceeding their Part 375 Commercial SCOs in the soil are located within the area of the former cesspool.
- The results for the sub-slab vapor concentration of TCA in SSV-1 was 182,000 ug/m³ and SSV-2 was 18,800 ug/m³ which are both in the "Mitigation" range. The sub-slab vapor at the SSV-3 location concentration of TCA was 31 ug/m³ which is in the "No Further Action" range. Additionally, the sub-slab vapor concentration of TCA in SSV-4 was 400 ug/m³ which is in the "Monitor" range. The elevated TCA concentrations at SSV-1 and SSV-2 (former indoor tank location area) are indicative of a source of contamination within the environment.
- Soil boring ISB-2 and sub-slab vapor point SSV-4 were installed in the former drain line area. Based on the results from these samples, it does not appear that the former drain line area has had a negative impact on the Property.
- On-site monitoring wells confirmed that the direction of groundwater flow is to the south.
- The highest detection of TCA was 962 ug/l in a perched water monitoring well (MW-4) downgradient of the former cesspool. The only other groundwater exceedance of TCA was identified in on-Site point SGB-1 at 33.1 ug/L. The groundwater standard for TCA is 5 ug/l. There were no exceedances of TCA in the groundwater sampling point placed downgradient of the former cesspools/wastewater holding tanks.
- During drilling activities, an obstruction (possibly buried concrete) was encountered to the south of the former cesspools/wastewater holding tanks at a depth of 15 feet. This obstruction does not exist to the north, east, or west.
- The results of a two-day water level elevation survey performed using a data logger indicated that the depth to water in wells MW-1 through MW-3 decreased between 0.043 to 0.383 feet.

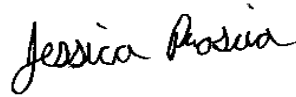
4.2 Recommendation

- We recommend that an Interim Remedial Measure (IRM) Work Plan be prepared to address the findings at this Site. The proposed IRM Work Plan activities will include pumping out all of the liquid within the former cesspools/wastewater holding tanks, removing the structures and the remaining contaminated soil. Additionally, a combination of SVE and SSDS including a combination of fans, a visual alarm and scheduled monitoring will address and residual contamination at the Site.

If you have any questions regarding this report, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Environmental Scientist

Reviewed by:

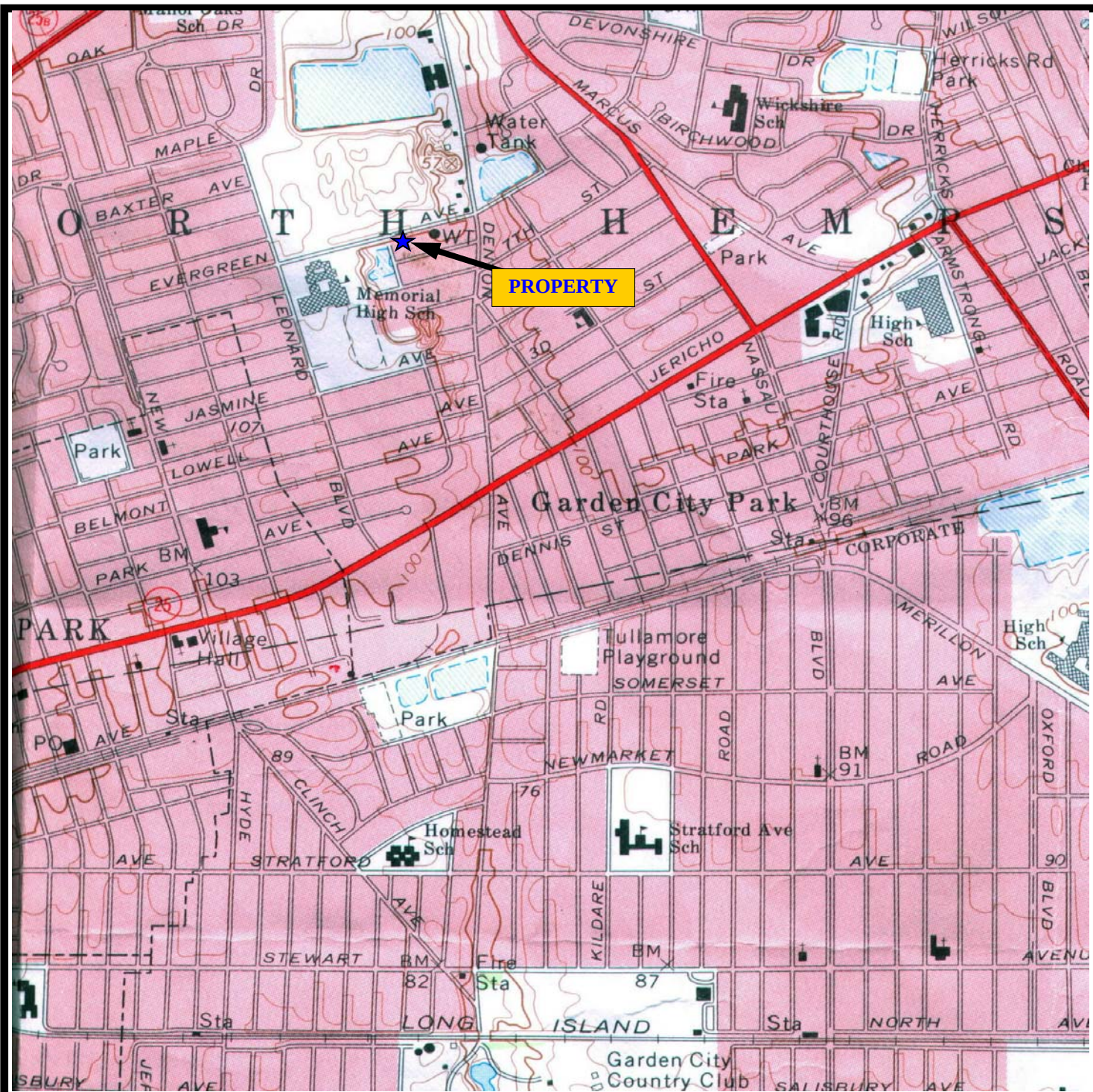


Eric A. Weinstock
Vice President

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FIGURES



Adapted from 1969 USGS Lynbrook Quadrangle



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

**Site Location Map
On Topographic Map**

DATE:

11/4/2013

SCALE:

AS SHOWN

FIG- 1

DRAWING:

**Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York**

DRAWN BY:

JP

APPR. BY:

EW

Evergreen Avenue

Former Drain Lines

Approximate Property Boundary

Water Authority
Of Western
Nassau County

Abandoned USTs

Former Flammable
Storage Areas

SITE BUILDING

Former Product
Storage Area

Truck
Bays

2-Foot Wide
Restored Trench

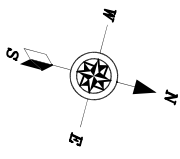
Garage
Door

Metal
Vault

Falmouth Avenue

Suspect Former
Cesspools

Gate



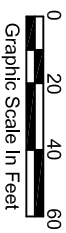
LEGEND



Area of Geophysical
Investigation



Line Trace from Investigation
Reinforced Concrete



Graphic Scale In Feet

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982
17 Dupont Street, Plainville, New York 11803

TITLE:
Findings from Geophysical
Investigation 3/29/13

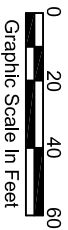
DATE:
4/1/2013

SCALE:
As Shown

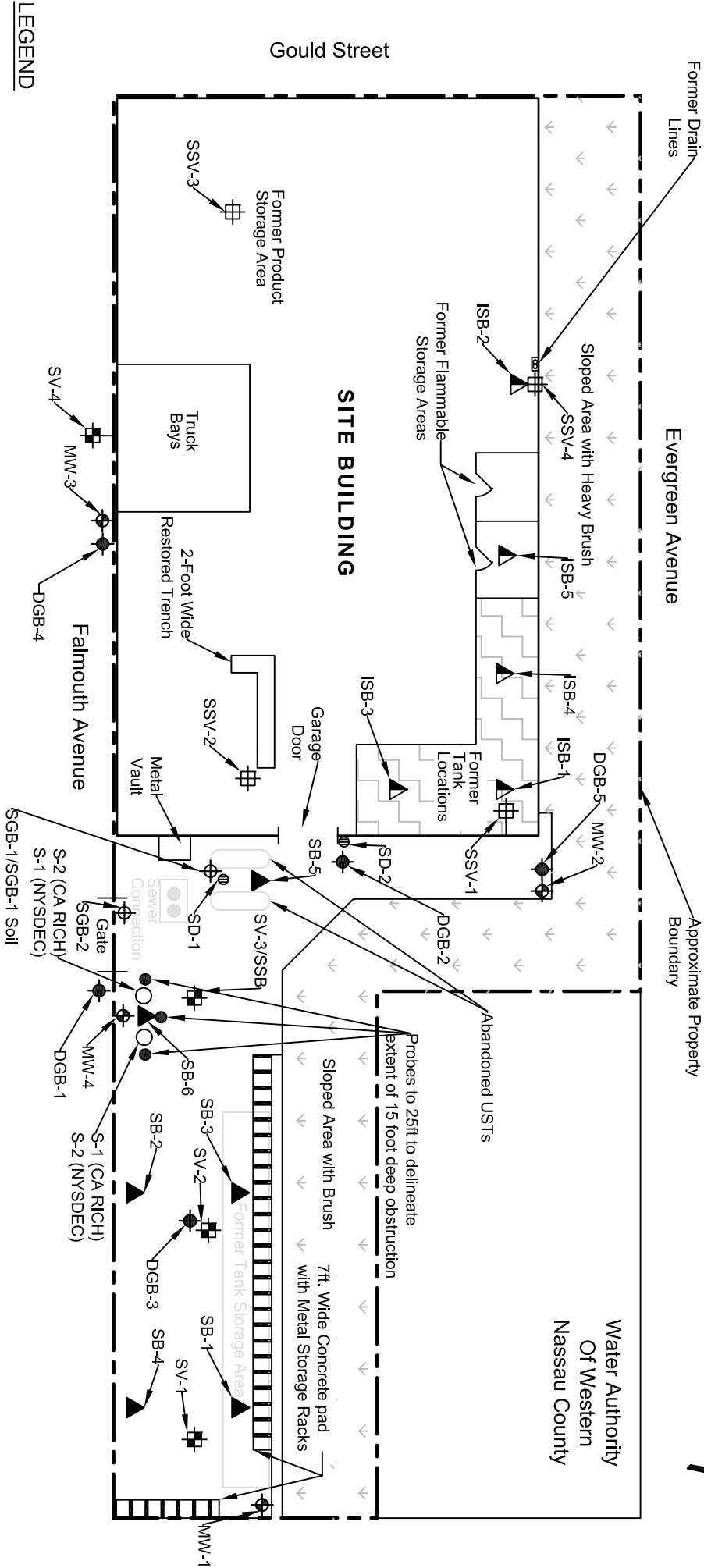
FIGURE:
2
Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

DRAWN BY:
J.T.C./T.R.B.
APPR. BY:
E.A.W.

- LEGEND**
- ▲ Exterior 20' Soil Boring
 - ▲ Interior Shallow Soil Boring
 - ⊞ 1" Sub-Slab Soil Vapor Sample
 - ⊞ 8" Soil Vapor Sample
 - Former Cesspools
 - Temporary 55' or 85' Groundwater Boring
 - ⊕ 30' Groundwater Monitoring Well
 - ⊕ Temporary 30' Groundwater Boring
 - ⊕ Storm Drain
 - Probe Without Samples



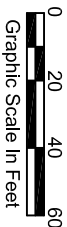
CA RICH CONSULTANTS, INC.		Environmental Specialists Since 1982 17 Dupont Street, Plainview, New York 11803	
Sample Location Map		DATE: 6/3/2014 SCALE: As Shown	
FIGURE 3	Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY	DRAWN BY: J.T.C./T.R.B.	APPR BY: E.A.W.
DRAWING NO: 2013-4			



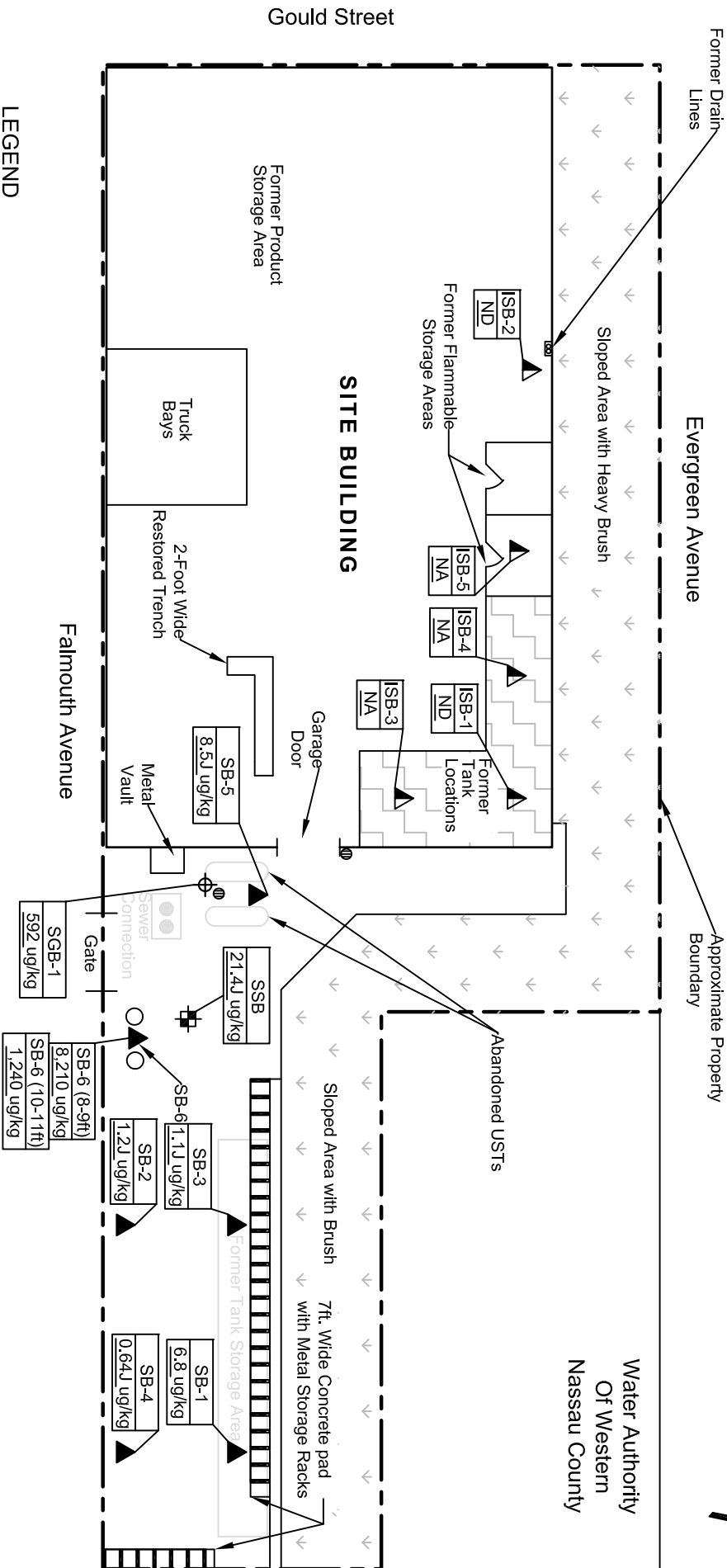
SB-1	Sample ID
6.8 ug/kg	TCA Concentration

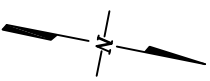
- ▲ Exterior 20' Soil Boring
- ▲ Interior Shallow Soil Boring
- Former Cesspools
- ⊕ Storm Drain

LEGEND

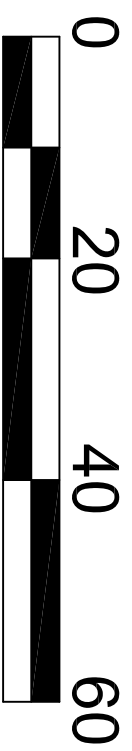
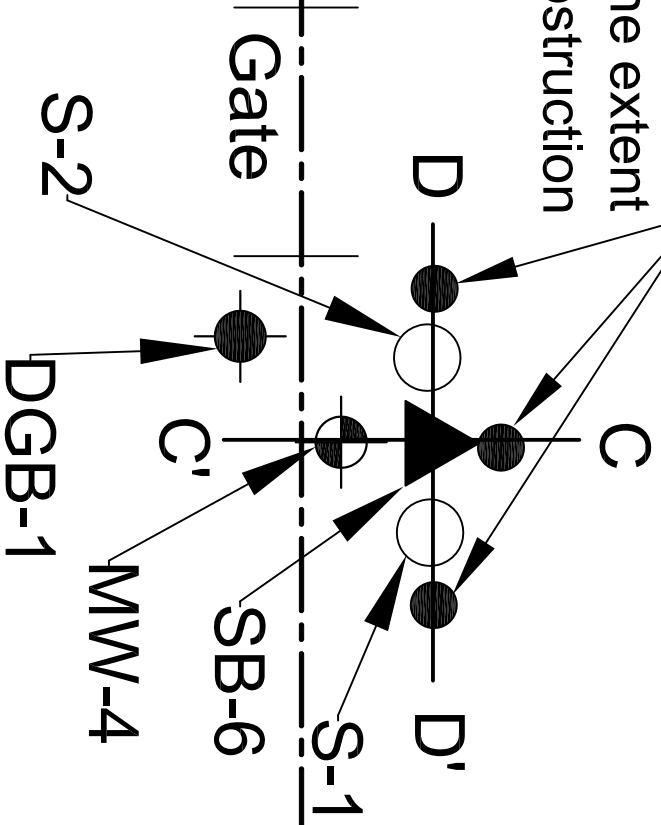


CA RICH CONSULTANTS, INC.	
Environmental Specialists Since 1982	
17 Dupont Street, Plainview, New York 11803	
TITLE	DATE
TCA Concentrations in Soil Samples	11/4/2013
FIGURE	SCALE
4	As Shown
DRAWING NO:	DRAWN BY:
2013-4	J.T.C./T.R.B.
	APPR BY:
	E.A.W.





Borings completed
to determine extent
of obstruction



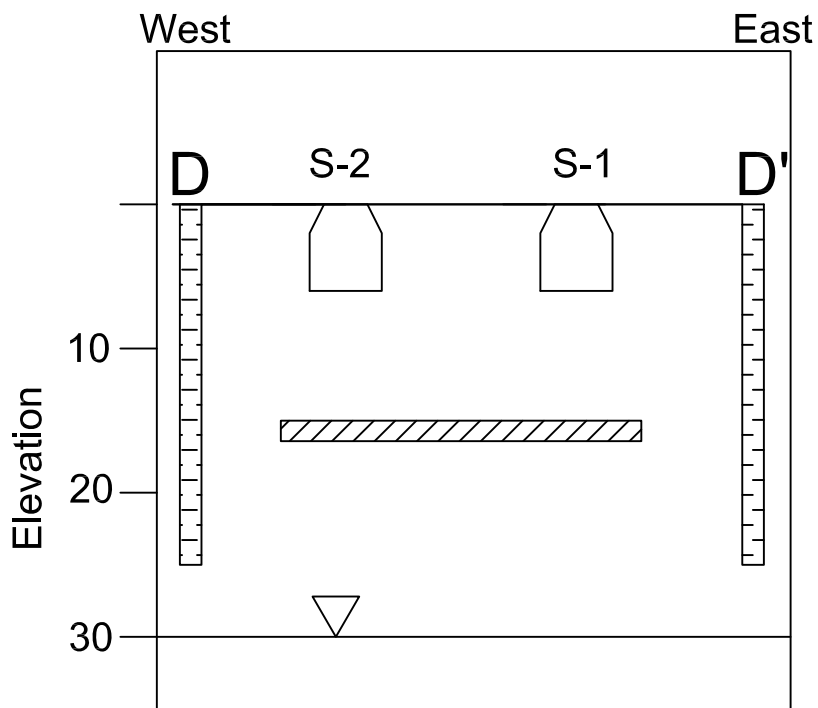
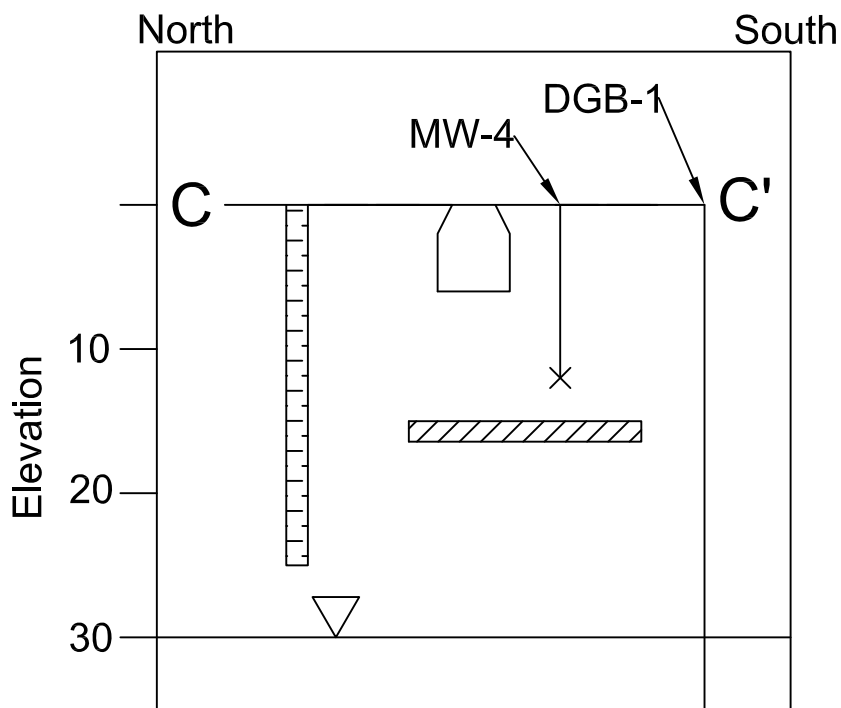
Graphic Scale In Feet

CA RICH CONSULTANTS, INC.

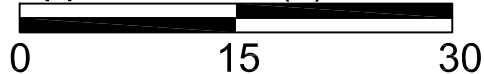
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE		DATE
Location of Cesspool Cross-sections		6/17/2014

FIGURE	5	FORMER ZOE CHEMICAL SITE 1801 FAIRMOUTH AVENUE NEW HYDE PARK, NY	DRAWN BY: T.R.B.
DRAWING NO:	2013-11		APPR BY: E.A.W.



Approx. Scale (ft)



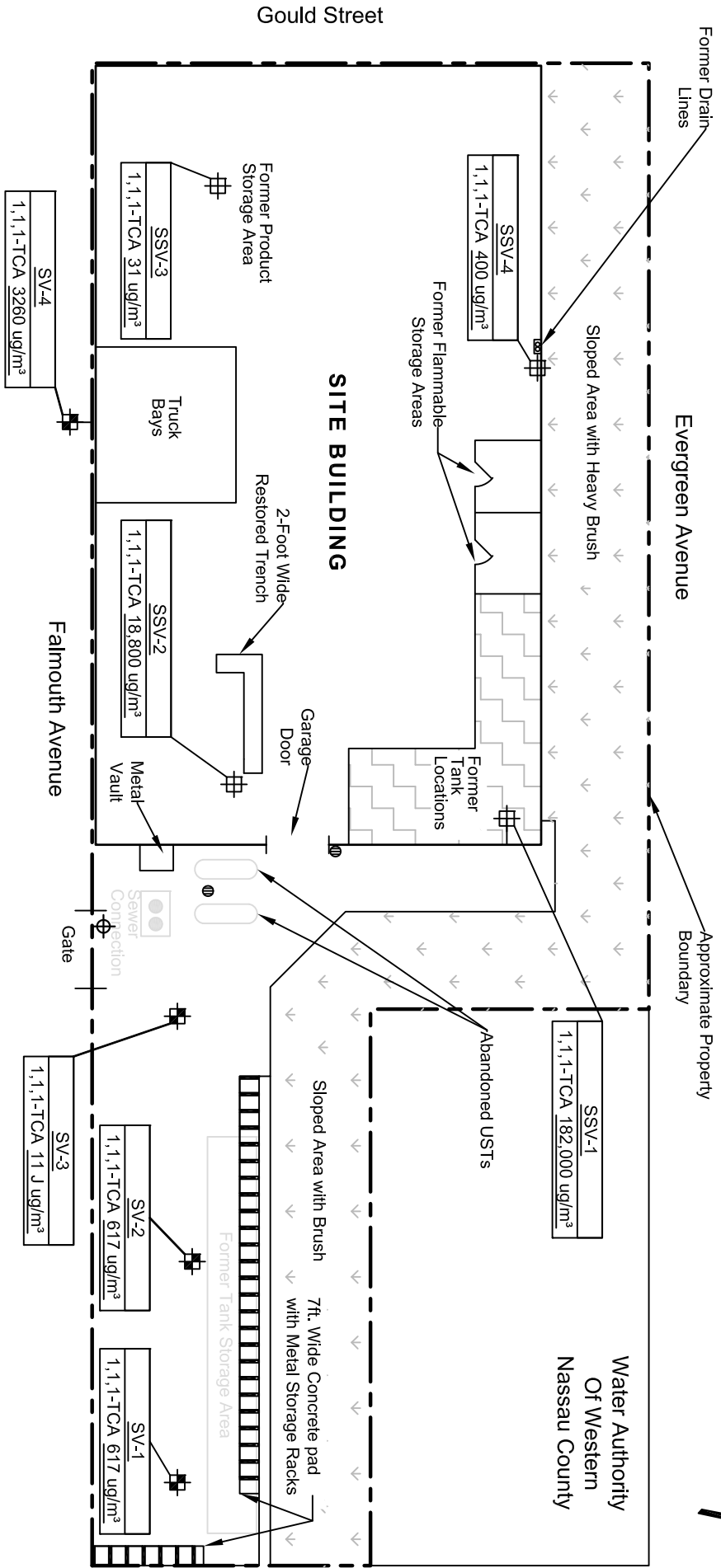
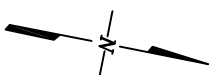
Legend

-  Water Table Elevation
-  Cesspool
-  Obstruction
-  Borings Completed to Define Obstruction

CA RICH CONSULTANTS, INC.

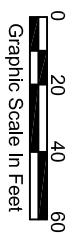
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Cesspool Cross-sections		DATE: 6/3/2014
FIGURE: 6		SCALE: As Shown
DRAWING NO: 2013-12		DRAWN BY: T.R.B.
Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY		APPR. BY: E.A.W.

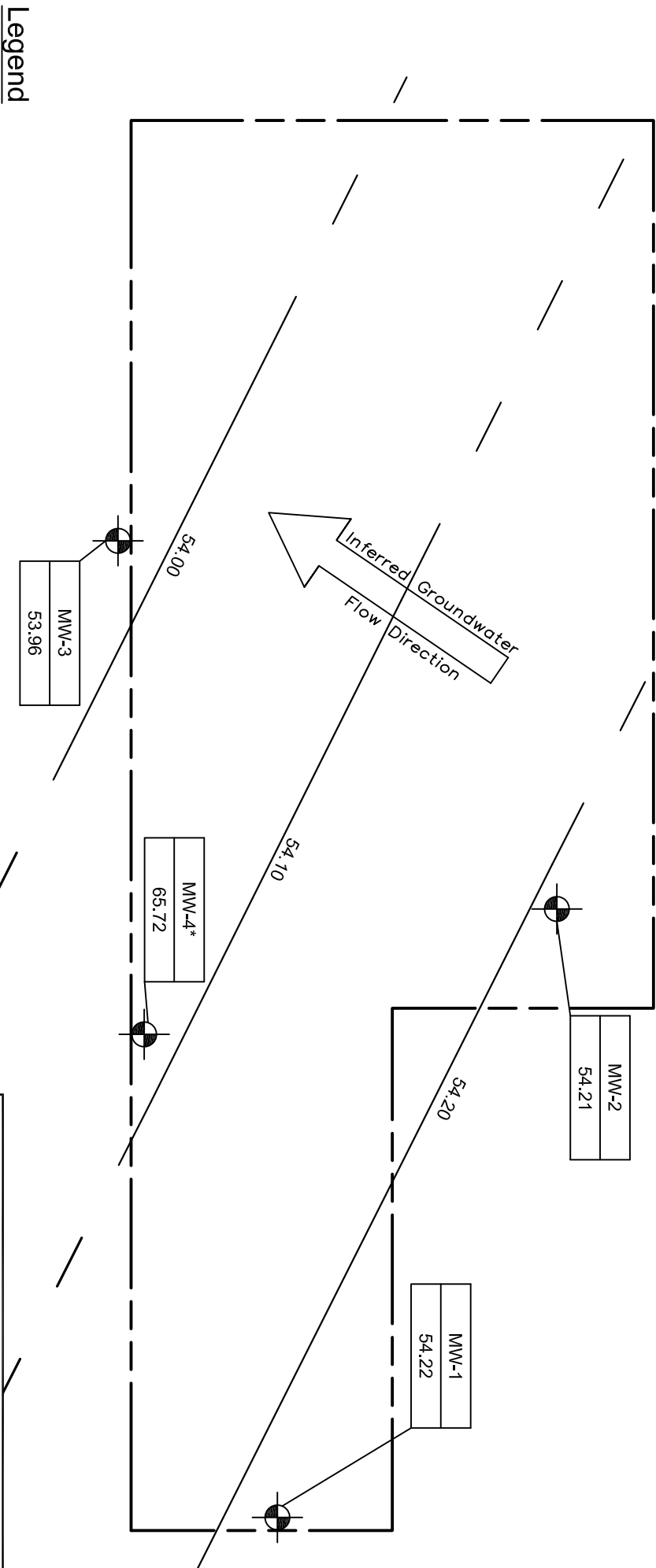
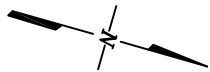


LEGEND

- 1" Sub-Slab Soil Vapor Sample
 - 8" Soil Vapor Sample
- | Sample ID | Concentration of 1,1,1-Tetrachloroethane |
|-----------|--|
| SV-4 | 1,1,1-TCA 3260 ug/m³ |



CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1982			
17 Dupont Street, Plainview, New York 11803			
TITLE		DATE	
TCA Concentrations		11/4/2013	
in Soil Vapor		SCALE	
		As Shown	
FIGURE	7	DRAWN BY:	J.T.C./T.R.B.
DRAWING NO:	2013-5	APPR. BY:	E.A.W.
Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY			



Legend

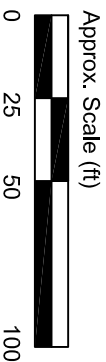
MW-2
54.21

Well ID
Water Table Elevation on May 14, 2013

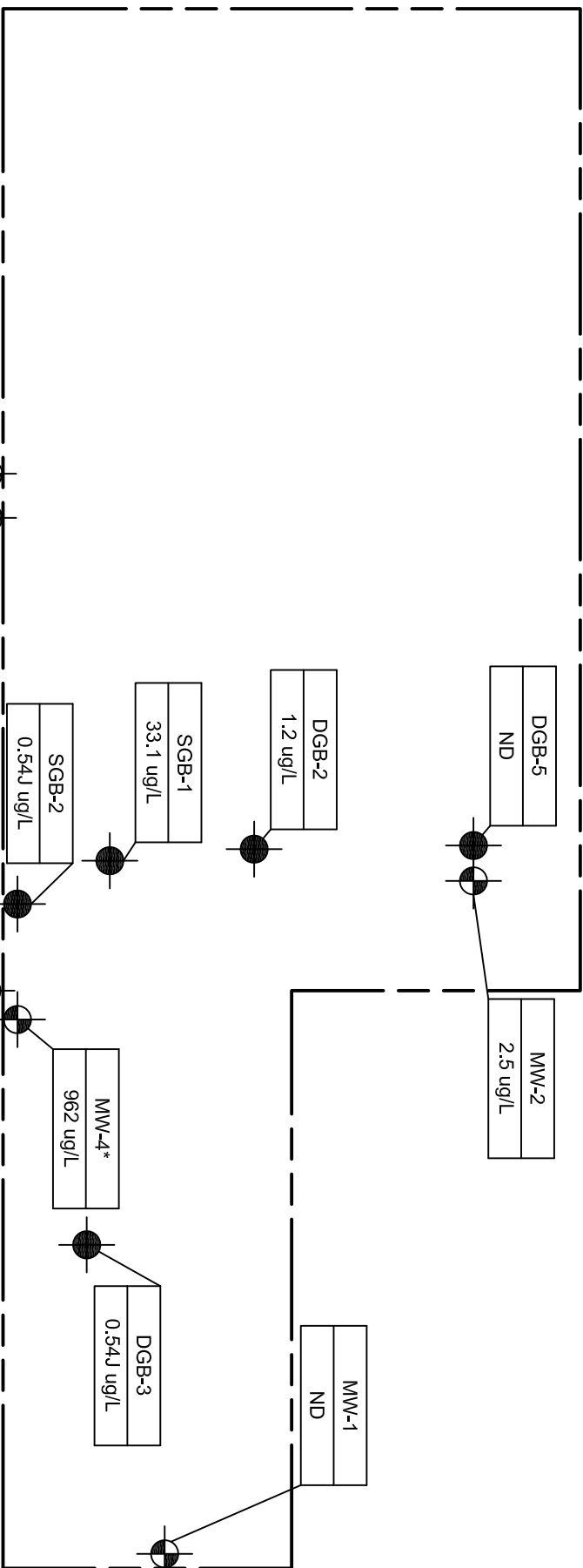
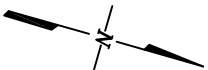
Groundwater Contour Line
(Dashed where inferred)

*MW-4 intersects perched water above the water table

Note:
MW-4 was not used for contour map



CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1982			
17 Dupont Street, Plainville, New York 11803			
TITLE:		DATE:	
Groundwater Flow Map		11/5/2013	
FIGURE:		SCALE:	
8		As Shown	
DRAWING NO.:		DRAWN BY:	
2013-2		T.R.B.	
Former Zoe Chemical Site		APPR. BY:	
1801 Falmouth Avenue		E.A.W.	
New Hyde Park, NY			



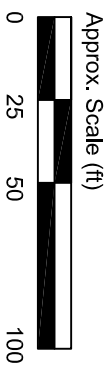
Legend

MW-2
2.5 ug/L

Sample ID
1,1,1-TCA Concentration

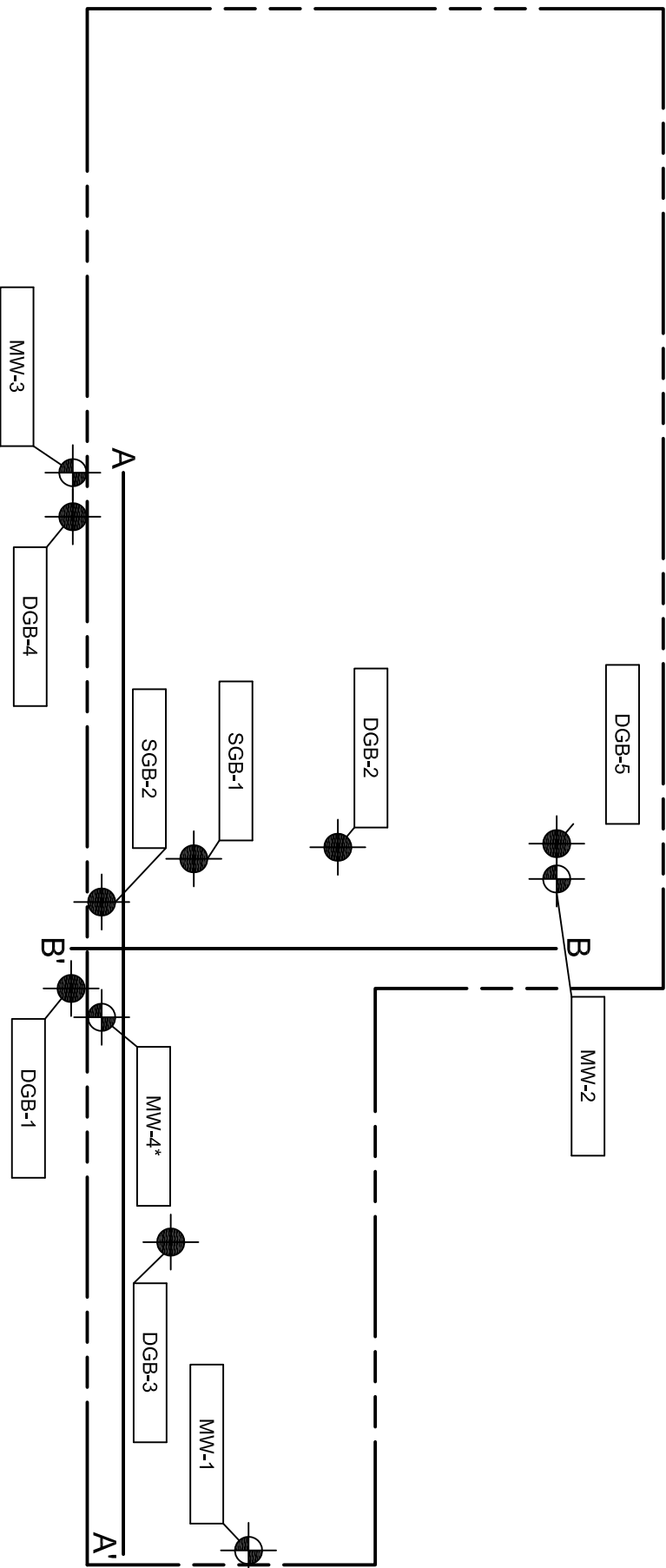
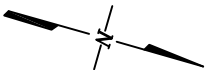
Permanent Monitoring Well

Temporary Sample Point



Note:
*MW-4 intersects perched water above the water table

CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1982			
17 Dupont Street, Plainville, New York 11803			
TITLE:		DATE:	
TCA Concentration in		11/5/2013	
Groundwater at water table		SCALE:	
		As Shown	
FIGURE	9	DRAWN BY:	T.R.B.
DRAWING NO:	2013-7	APPR. BY:	E.A.W.
Former Zoe Chemical Site			
1801 Falmouth Avenue			
New Hyde Park, NY			

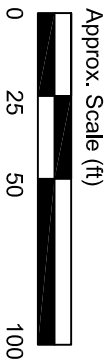


Legend

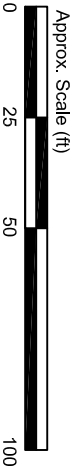
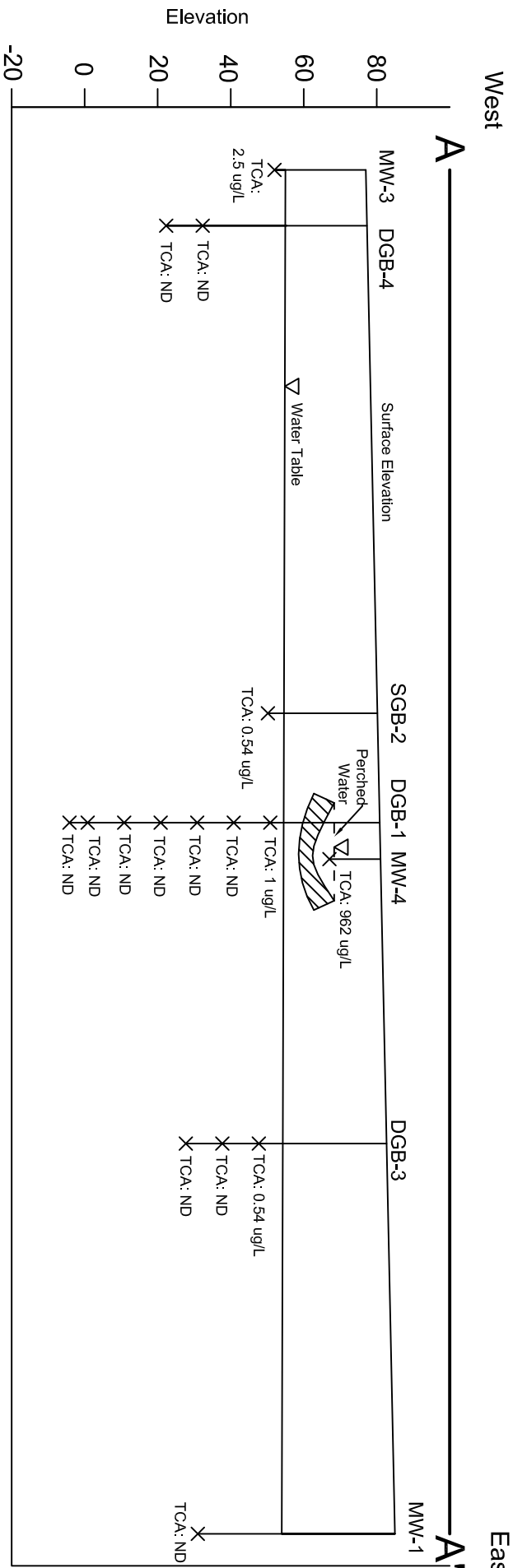
MW-2 Sample ID

A' Location of Cross-section

Note:
*MW-4 intersects perched water above the water table



CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1982			
17 Dupont Street, Plainville, New York 11803			
TITLE:		DATE:	
Cross-section Location Map		11/5/2013	
FIGURE:		SCALE:	
10		As Shown	
DRAWING NO.:		DRAWN BY:	
2013-8		T.R.B.	
Former Zoe Chemical Site		APPR. BY:	
1801 Falmouth Avenue		E.A.W.	
New Hyde Park, NY			



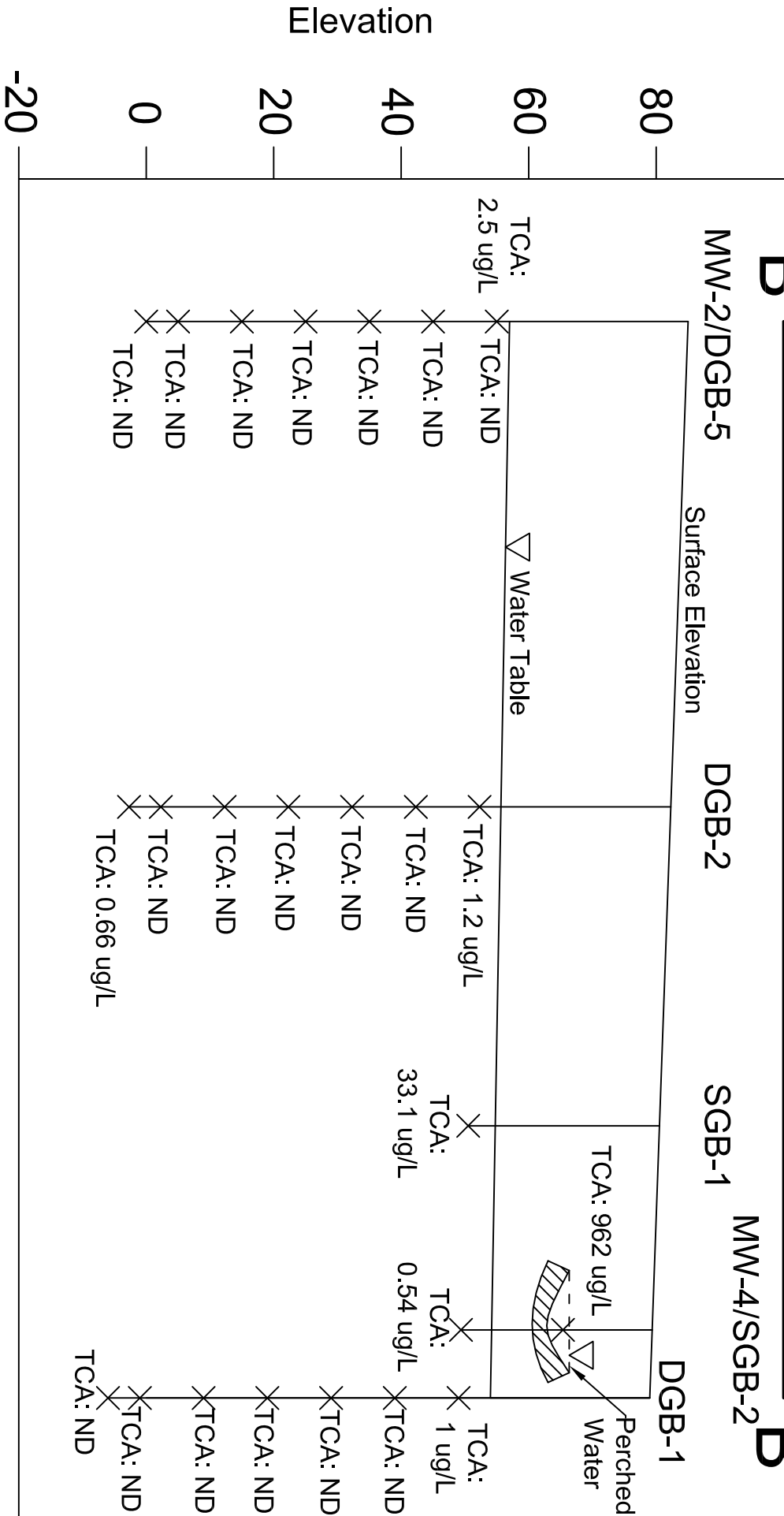
CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1982			
17 Dupont Street, Plainville, New York 11803			
TITLE:		DATE:	
Cross-section Across A-A'		11/5/2013	
SCALE:		As Shown	
FIGURE:	DRAWN BY:		DATE:
11	Former Zoe Chemical Site		11/5/2013
DRAWING NO:	1801 Falmouth Avenue		T.R.B.
2013-9	New Hyde Park, NY		APPR. BY:
			E.A.W.

North

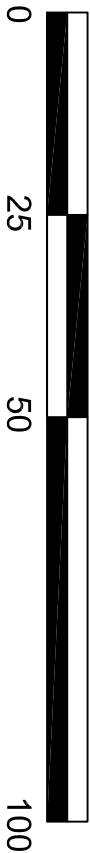
B

B'

South



Approx. Scale (ft)



CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982
17 Dupont Street, Plainville, New York 11803

TITLE: Cross-section Across B-B'

DATE: 11/8/2013

SCALE: As Shown

FIGURE: 12

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

DRAWN BY: T.R.B.

APPR. BY: E.A.W.

TABLES

Table 3
Analytical Results of Pesticides In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SB-1 (0-2 feet)	SB-2 (0-2 feet)	SB-3 (0-2 feet)	SB-4 (0-2 feet)	SB-5 (0-2 feet)	SB-6 (8-9 feet)	SB-6 (10-11 feet)	ISB-1 (0-2 feet)	ISB-2 (0-2 feet)	SSB (5-8 feet)	SGB-1 (10-12feet)	SB-X	Field Blank	NYSDEC Part 375*	NYSDEC Part 375*	NYSDEC CP-51**
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous			
Date Sampled	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/25/2013	4/25/2013	9/18/2013	9/18/2013	9/18/2013	10/8/2013	4/22/2013	4/23/2013	Unrestricted SCOs	Commercial SCOs	Commercial SCOs
Pesticides via EPA Method 8081B																
Units	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/kg	ua/l	ua/kg	ua/kg	ua/kg
Aldrin	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	5	680	NVG
alpha-BHC	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	20	3,400	NVG
beta-BHC	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	36	3,000	NVG
delta-BHC	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	40	500,000	NVG
gamma-BHC (Lindane)	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
alpha-Chlordane	1.3 JN	ND	1.1	ND	24.9 R	16,900 JD	2,120 JD	ND	2.1 J	2,380 D	3,280 D	3,110 JD	ND	94	24,000	NVG
gamma-Chlordane	2.0 R	ND	0.77	ND	31.8 R	20,100 D	2,600 D	ND	2.1	2,850 D	2,950 D	3,050 D	ND	NVG	NVG	NVG
Dieldrin	ND	ND	ND	ND	8.8 R	16,700 D	2,220 D	ND	ND	1,760 D	4,620 D	1,370 D	ND	5	1,400	NVG
4,4'-DDD	2.0	ND	ND	1.4	ND R	ND	ND	3.9	0.92	ND	ND	ND	ND	3.3	92,000	NVG
4,4'-DDE	2.4 J	ND	ND	0.82 J	0.71 R	ND	ND	2.8	1.4	ND	ND	ND	ND	3.3	62,000	NVG
4,4'-DDT	6.7 J	1.4 J	ND	4.0	5.8 R	ND	ND	15.2	3.9	ND	ND	ND	ND	3.3	47,000	NVG
Endrin	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	14	89,000	NVG
Endosulfan sulfate	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
Endrin aldehyde	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
Endrin ketone	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	55.1	ND	NVG	NVG	NVG
Endosulfan-I	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	2,400	200,000	NVG
Endosulfan-II	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	2,400	200,000	NVG
Heptachlor	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	42	15,000	NVG
Heptachlor epoxide	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
Methoxychlor	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
Toxaphene	ND	ND	ND	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG	NVG
Pesticides Total	14.4	1.4	1.87	6.22	72.01	53,700	8,410	21.9	10.42	6,990	10,850	11,805.1	0	NVG	NVG	500,000

Notes:

All soil concentrations are reported in micrograms per kilogram (µg/kg) or parts per billion.

All aqueous concentrations are reported in ug/L or ppb

**6 NYCRR Part 375: Environmental Remediation Programs.*

Subparts 375-1 to 375-4 & 375-6; Table 6.8a December 14, 2006.

SB-X is a duplicate for SB-5(0-2 feet)

NVG - No Value Given

ND - Not detected at or above reporting limits

JN - The analysis indicates the presence of an analyte that has been "tentatively identified"

and the associated numerical value represents its approximate quantity.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet

quality control criteria. The presence or absence of the analyte cannot be verified.

D - Analyte concentration obtained from dilution.

****NYSDEC CP-51 Soil Cleanup Guidance October 21, 2010**

Table 4
Analytical Results of PCBs In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

[illegible]

Notes:

All soil concentrations are reported in micrograms per kilogram (µg/kg) or parts per billion.

*6 NYCRR Part 375: Environmental Remediation Programs.

Subparts 375-1 to 375-4 & 375-6; Table 6.8a December 14, 2006.

ND - Not detected at or above reporting limits

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5
Analytical Results of Metals In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SB-1 (0-2 feet) Soil 4/22/2013	SB-2 (0-2 feet) Soil 4/22/2013	SB-3 (0-2 feet) Soil 4/22/2013	SB-4 (0-2 feet) Soil 4/22/2013	SB-5 (0-2 feet) Soil 4/22/2013	SB-6 (8-9 feet) Soil 4/25/2013	SB-6 (10-11 feet) Soil 4/25/2013	ISB-1 (0-2 feet) Soil 9/18/2013	ISB-2 (0-2 feet) Soil 9/18/2013	SSB (5-8 feet) Soil 9/18/2013	SGB-1 (10-12feet) Soil 10/8/2013	SB-X Soil 4/22/2013	Field Blank Aqueous 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Metals via EPA Method SW6010/SW7471B															
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	mg/kg	mg/kg
Aluminum	9,210	3,680	4,740	6,270	9,770 R	3,500	4,190	3,100	7,460	6,350	6,290	8,420	<200	NVG	NVG
Antimony	<2.2	<2.1 UJ	<2.0	<2.2	<2.1 R	<2.0	<2.3	<2.1	<2.1	<2.3	<2.0	<2.2	<6.0	NVG	NVG
Arsenic	6.2	2.4	2.1	2.8	6.4 R	2.7	<2.3	<2.1	3.3	3.7	6.5	3.3	<3.0	13	16
Barium	112	29.1	32.9	42.0	67.1 R	46.8	<23	<21	26.5	40.8	94.8	31.6	<200	350	400
Beryllium	0.53	<0.21	<0.20	0.23	0.62 R	<0.20	<0.23	<0.21	0.31	0.23	<0.20	0.34	<1.0	7.2	590
Cadmium	15.9	<0.52	<0.50	<0.55	<0.53 R	0.66	<0.59	<0.52	<0.52	<0.58	0.79	<0.55	<3.0	2.5	9.3
Calcium	21,800	6,950	5,950	9,640	27,600 R	16,100	3,970	<520	912	1,670	10,900	1,240	<5,000	NVG	NVG
Chromium	19.9	10.3	7.9	10	32.4 R	18.3	8.9	7.5	11.2	11.6	13.8	12.6	<10	30	1,500
Cobalt	<5.5	6.6	<5.0	<5.5	<5.3 R	<5.0	<5.9	<5.2	<5.2	<5.8	<5.0	<5.5	<50	NVG	NVG
Copper	736	7.1	11.6	19.2	39.6 R	46.3	8.1	7	8.5	13.9	24.4	25.8	<10	50	270
Iron	24,700	6,610	8,900	10,300	15,900 R	3,190	5,620	7,790	12,100	7,730	11,700	9,530	<100	NVG	NVG
Lead	82.2	10.6	22.5	25.2	187 R	73.2	31.8	10.9	13.7	59.2	139	41.6	<3.0	63	1,000
Magnesium	4,030	3,850 J	1,180	2,860	2,760 R	760	729	708	1,150	985	1,500	1,200	<5,000	NVG	NVG
Manganese	451	352	228	206	199 R	48.5	78.4	139	176	60.3	197	221	<15	1,600	10,000
Mercury	0.32	<0.035	<0.034	<0.034	0.066 R	36.7	0.98	<0.033	<0.035	34	7.2	0.27	<0.20	0.18	2.8
Nickel	17.5	7.0	9.2	10.0	17.2 R	9.3	5.7	7.5	9.7	9.5	10	10.1	<10	30	310
Potassium	<1,100	<1,000	<1,000	<1,100	1,130 R	<1,000	<1,200	<1,000	<1,000	<1,200	<990	<1,100	<10,000	NVG	NVG
Selenium	<2.2	<2.1	<2.0	<2.2	<2.1 R	<2.0	<2.3	<2.1	<2.1	<2.3	<2.0	<2.2	<10	3.9	1,500
Silver	1.2	<0.52	<0.50	0.85	0.90 R	<0.50	<0.59	<0.52	<0.52	<0.58	0.54	<0.55	<10	2	1,500
Sodium	<1,100	<1,000	<1,000	<1,100	<1,100 R	<1,000	<1,200	<1,000	<1,000	<1,200	<990	<1,100	<10,000	NVG	NVG
Thallium	<1.1	<1.0	<1.0	<1.1	<1.1 R	<1.0	<1.2	<1.0	<1.0	<1.2	<0.99	<1.1	<2.0	NVG	NVG
Vanadium	19.3	10.7	9.7	11.5	27.5 R	8.5	9.6	8	14.9	12.9	17.2	15	<50	NVG	NVG
Zinc	416	26.4	26.6	36.0	159 R	178	33.5	18.9	27.1	58.5	354	50.3	<20	109	10,000

Notes:
All soil concentrations are reported in milligrams per kilogram (mg/kg) or parts per million.
All aqueous concentrations are reported in ug/L or ppb
NVG - No Value Given
Mercury analyzed via EPA Method 7471B

SB-X is a duplicate of SB-5 (0-2 feet)

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R- The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives
Bold and boxed indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives

Table 6
Analytical Results of Volatile Organic Compounds In Storm Drain Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SD-1 (1-2 feet) Soil 4/23/2013	SD-2 (3-4 feet) Soil 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
VOCs via EPA Method 8260C				
Units	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	31.8 J	ND R	50	500,000
Benzene	ND	ND UJ	60	44,000
Bromochloromethane	ND	ND UJ	NVG	NVG
Bromodichloromethane	ND	ND UJ	NVG	NVG
Bromoform	ND	ND UJ	NVG	NVG
Bromomethane	ND	ND UJ	NVG	NVG
2-Butanone (MEK)	ND R	ND R	NVG	NVG
Carbon disulfide	0.67 J	ND UJ	NVG	NVG
Carbon tetrachloride	ND	ND UJ	760	22,000
Chlorobenzene	ND	ND UJ	1,100	500,000
Chloroethane	1.1 J	3,1900 JD	NVG	NVG
Chloroform	ND	62.9 J	370	NVG
Chloromethane	ND	ND UJ	NVG	NVG
Cyclohexane	ND	ND UJ	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND UJ	NVG	NVG
Dibromochloromethane	ND	ND UJ	NVG	NVG
1,2-Dibromoethane	ND	ND UJ	NVG	NVG
1,2-Dichlorobenzene	ND	ND UJ	1,100	500,000
1,3-Dichlorobenzene	ND	ND UJ	2,400	280,000
1,4-Dichlorobenzene	ND	ND UJ	1,800	130,000
Dichlorodifluoromethane	ND	ND UJ	NVG	NVG
1,1-Dichloroethane	9.3	172,000 JD	270	240,000
1,2-Dichloroethane	ND	305 J	20	30,000
1,1-Dichloroethene	ND	59,600 JD	330	500,000
cis-1,2-Dichloroethene	0.35 J	543 J	250	500,000
trans-1,2-Dichloroethene	ND	ND UJ	190	500,000
1,2-Dichloropropane	ND	ND UJ	NVG	NVG
cis-1,3-Dichloropropene	ND	ND UJ	NVG	NVG
trans-1,3-Dichloropropene	ND	ND UJ	NVG	NVG
1,4-Dioxane	ND	ND UJ	100	130,000
Ethylbenzene	ND	807 J	1,000	390,000
Freon 113	ND	ND UJ	NVG	NVG
2-Hexanone	ND	ND UJ	NVG	NVG
Isopropylbenzene	ND	253 J	NVG	NVG
Methyl Acetate	ND	2,670 J	NVG	NVG
Methylcyclohexane	ND	ND UJ	NVG	NVG
Methyl Tert Butyl Ether	ND	ND UJ	930	500,000
4-Methyl-2-pentanone(MIBK)	ND	ND UJ	NVG	NVG
Methylene chloride	3.0 J	ND UJ	50	500,000
Styrene	ND	ND UJ	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND UJ	NVG	NVG
Tetrachloroethene	ND	23,400 J	1,300	150,000
Toluene	0.40 J	58,000 JD	700	500,000
1,2,3-Trichlorobenzene	ND	ND UJ	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND UJ	NVG	NVG
1,1,1-Trichloroethane	52.1	9,290,000 JD	680	500,000
1,1,2-Trichloroethane	ND	ND UJ	NVG	NVG
Trichloroethene	0.80 J	88,800 JD	470	200,000
Trichlorofluoromethane	ND	155 J	NVG	NVG
Vinyl chloride	ND	314 J	20	13,000
m,p-Xylene	ND	2,460 J	260	500,000
o-Xylene	ND	1,230 J	260	500,000
Xylene (total)	ND	3,690 J	260	500,000

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

J - Indicates an estimated value

ND - No Detection

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D - Analyte concentration obtained from dilution.

NVG - No Value Given

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Bold and boxed indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 7
Analytical Results of Semi-Volatile Organic Compounds In Storm Drain Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SD-1 (1-2 feet) Soil 4/23/2013	SD-2 (3-4 feet) Soil 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
SVOCs via EPA Method 8270				
Units	ug/kg	ug/kg	ug/kg	ug/kg
2-Chlorophenol	ND	ND	NVG	NVG
4-Chloro-3-methyl phenol	ND	ND	NVG	NVG
2,4-Dichlorophenol	ND	ND	NVG	NVG
2,4-Dimethylphenol	ND	ND	NVG	NVG
2,4-Dinitrophenol	ND	ND	NVG	NVG
4,6-Dinitro-o-cresol	ND	ND	NVG	NVG
2-Methylphenol	ND	ND	NVG	NVG
3&4-Methylphenol	ND	ND	NVG	NVG
2-Nitrophenol	ND	ND	NVG	NVG
4-Nitrophenol	ND	ND	NVG	NVG
Pentachlorophenol	ND	ND	800	6,700
Phenol	ND	ND	330	500,000
2,3,4,6-Tetrachlorophenol	ND	ND	NVG	NVG
2,4,5-Trichlorophenol	ND	ND	NVG	NVG
2,4,6-Trichlorophenol	ND	ND	NVG	NVG
Acenaphthene	ND	ND	20,000	500,000
Acenaphthylene	46.9	ND	100,000	500,000
Acetophenone	ND	ND	NVG	NVG
Anthracene	64.4	ND	100,000	500,000
Atrazine	ND	ND	NVG	NVG
Benzaldehyde	ND	ND	NVG	NVG
Benzo(a)anthracene	204	ND	1,000	5,600
Benzo(a)pyrene	271	ND	1,000	1,000
Benzo(b)fluoranthene	346	207 J	1,000	5,600
Benzo(g,h,i)perylene	262	117 J	100,000	500,000
Benzo(k)fluoranthene	280	ND	800	56,000
4-Bromophenyl phenyl ether	ND	ND	NVG	NVG
Butyl benzyl phthalate	407	318 J	NVG	NVG
1,1'-Biphenyl	ND	ND	NVG	NVG
2-Chloronaphthalene	ND	ND	NVG	NVG
4-Chloroaniline	ND	ND	NVG	NVG
Carbazole	43.0 J	ND	NVG	NVG
Caprolactam	ND	ND	NVG	NVG
Chrysene	438	310	1,000	56,000
bis(2-Chloroethoxy)methane	ND	ND	NVG	NVG
bis(2-Chloroethyl)ether	ND	ND	NVG	NVG
bis(2-Chloroisopropyl)ether	ND	ND	NVG	NVG
4-Chlorophenyl phenyl ether	ND	ND	NVG	NVG
2,4-Dinitrotoluene	ND	ND	NVG	NVG
2,6-Dinitrotoluene	ND	ND	NVG	NVG
3,3'-Dichlorobenzidine	ND	ND	NVG	NVG
Dibenzo(a,h)anthracene	60.8	ND	330	560
Dibenzofuran	ND	ND	NVG	NVG
Di-n-butyl phthalate	409	4,480	NVG	NVG
Di-n-octyl phthalate	ND UJ	391 J	NVG	NVG
Diethyl phthalate	ND	624	NVG	NVG
Dimethyl phthalate	ND	ND	NVG	NVG
bis(2-Ethylhexyl)phthalate	2,420	9,220	NVG	NVG
Fluoranthene	513	207 J	100,000	500,000
Fluorene	26.0 J	ND	NVG	NVG
Hexachlorobenzene	ND	ND	NVG	NVG
Hexachlorobutadiene	ND	ND	NVG	NVG
Hexachlorocyclopentadiene	ND UJ	ND	NVG	NVG
Hexachloroethane	ND	ND	NVG	NVG
Indeno(1,2,3-cd)pyrene	196	ND	500	5,600
Isophorone	ND	ND	NVG	NVG
2-Methylnaphthalene	ND	143 J	NVG	NVG
2-Nitroaniline	ND	ND	NVG	NVG
3-Nitroaniline	ND	ND	NVG	NVG
4-Nitroaniline	ND	ND	NVG	NVG
Naphthalene	ND	161 J	1,200	500,000
Nitrobenzene	ND	ND	NVG	NVG
N-Nitroso-di-n-propylamine	ND	ND	NVG	NVG
N-Nitrosodiphenylamine	ND	ND	NVG	NVG
Phenanthrene	242	399	100,000	500,000
Pyrene	654	185 J	100,000	500,000
1,2,4,5-Tetrachlorobenzene	ND	ND	NVG	NVG
Notes: All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion. J - Indicates an estimated value ND - No Detection UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. NVG - No Value Given Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives. Bold and boxed indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.				

Table 8
Analytical Results of Pesticides In Storm Drain Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SD-1 (1-2 feet) Soil 4/23/2013	SD-2 (3-4 feet) Soil 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Pesticides via EPA Method 8081				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Aldrin	ND	ND	5	680
alpha-BHC	ND	ND	20	3,400
beta-BHC	ND	ND	36	3,000
delta-BHC	ND	ND	40	500,000
gamma-BHC (Lindane)	ND	ND	NVG	NVG
alpha-Chlordane	11.8 JN	62.3 J	94	24,000
gamma-Chlordane	17.1 R	86.8 JN	NVG	NVG
Dieldrin	7.2	38.8	5	1,400
4,4'-DDD	1.1 JN	ND	3.3	92,000
4,4'-DDE	2.7 J	ND	3.3	62,000
4,4'-DDT	2.2 J	ND	3.3	47,000
Endrin	ND	ND	14	89,000
Endosulfan sulfate	ND	ND	NVG	NVG
Endrin aldehyde	ND	ND	NVG	NVG
Endrin ketone	ND	ND	NVG	NVG
Endosulfan-I	ND	ND	2,400	200,000
Endosulfan-II	ND	ND	2,400	200,000
Heptachlor	ND	ND	42	15,000
Heptachlor epoxide	ND	ND	NVG	NVG
Methoxychlor	ND	ND	NVG	NVG
Toxaphene	ND	ND	NVG	NVG

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

J - Indicates an estimated value

ND - No Detection

NVG - No Value Given

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

JN - The analysis indicates the presence of an analyte that has been

tentatively identified and the associated numerical value represents its approximate quantity.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 9
Analytical Results of PCBs In Storm Drain Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SD-1 (1-2 feet) Soil 4/23/2013	SD-2 (3-4 feet) Soil 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
PCBs via EPA Method 8082				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Aroclor 1016	ND	ND	1,000	1,000
Aroclor 1221	ND	ND	1,000	1,000
Aroclor 1232	ND	ND	1,000	1,000
Aroclor 1242	ND	ND	1,000	1,000
Aroclor 1248	ND	ND	1,000	1,000
Aroclor 1254	ND	ND	1,000	1,000
Aroclor 1260	ND	ND	1,000	1,000
Aroclor 1268	ND	ND	1,000	1,000
Aroclor 1262	ND	ND	1,000	1,000

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

ND - No Detection

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Table 10
Analytical Results of Metals In Strom Drain Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	SD-1 (1-2 feet) Soil 4/23/2013	SD-2 (3-4 feet) Soil 4/23/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Metals via EPA Method SW6010/SW7471B				
Units	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
Aluminum	4,800	5,170	NVG	NVG
Antimony	<2.0	<2.0	NVG	NVG
Arsenic	3.0	3.1	13	16
Barium	44.5	63.4	350	400
Beryllium	0.43	0.29	7.2	590
Cadmium	1.9	1.5	2.5	9.3
Calcium	9,800	29,300	NVG	NVG
Chromium	22.5	21.7	30	1,500
Cobalt	<5.0	<5.0	NVG	NVG
Copper	155	256	50	270
Iron	19,200	13,600	NVG	NVG
Lead	55.6	114	63	1,000
Magnesium	3,750	2,830	NVG	NVG
Manganese	151	175	1,600	10,000
Mercury	0.30	0.60	0.18	2.8
Nickel	21.4	12.6	30	310
Potassium	<990	<1,000	NVG	NVG
Selenium	<2.0	<2.0	3.9	1,500
Silver	0.90	0.74	2	1,500
Sodium	<990	<1,000	NVG	NVG
Thallium	<0.99	<1.0	NVG	NVG
Vanadium	37.6	20.3	NVG	NVG
Zinc	459	269	109	10,000

Notes:

All concentrations are reported in milligrams per kilogram (mg/kg) or parts per million.

NVG - No Value Given

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6*

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Table 11 Analytical Results of Volatile Organic Compounds In Septic Samples Former Zoe Chemical Site 1801 Falmouth Road New Hyde Park, New York				
Sample ID Matrix Date Sampled	S-1 (7 feet) Soil 4/25/2013	S-2 (5 feet) Soil 4/25/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
VOCs via EPA Method 8260C				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Acetone	ND	ND R	50	500,000
Benzene	13.1 J	ND	60	44,000
Bromochloromethane	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	NVG	NVG
Bromoform	ND	ND	NVG	NVG
Bromomethane	ND	ND	NVG	NVG
2-Butanone (MEK)	ND R	ND R	NVG	NVG
Carbon disulfide	ND	ND	NVG	NVG
Carbon tetrachloride	ND	ND	760	22,000
Chlorobenzene	ND	ND	1,100	500,000
Chloroethane	736	ND	NVG	NVG
Chloroform	ND	ND	370	NVG
Chloromethane	ND	ND	NVG	NVG
Cyclohexane	137 J	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	NVG	NVG
1,1-Dichloroethane	30.9 J	9.7	270	240,000
1,2-Dichloroethane	ND	0.44 J	20	30,000
1,1-Dichloroethene	ND	0.49 J	330	500,000
cis-1,2-Dichloroethene	24.9 J	0.32 J	250	500,000
trans-1,2-Dichloroethene	34.4 J	ND	190	500,000
1,2-Dichloropropane	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	NVG	NVG
1,4-Dioxane	ND	ND	100	130,000
Ethylbenzene	8,880 J	ND	1,000	390,000
Freon 113	ND	ND	NVG	NVG
2-Hexanone	ND	ND	NVG	NVG
Isopropylbenzene	3,200 J	ND	NVG	NVG
Methyl Acetate	388	8.5	NVG	NVG
Methylcyclohexane	142 J	ND	NVG	NVG
Methyl Tert Butyl Ether	ND	ND	930	500,000
4-Methyl-2-pentanone(MIBK)	ND	ND	NVG	NVG
Methylene chloride	ND	ND	50	500,000
Styrene	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	NVG	NVG
Tetrachloroethene	61.9 J	12.6	1,300	150,000
Toluene	1,260 J	0.33 J	700	500,000
1,2,3-Trichlorobenzene	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	NVG	NVG
1,1,1-Trichloroethane	354	1,110	680	500,000
1,1,2-Trichloroethane	ND	0.43 J	NVG	NVG
Trichloroethene	60.3 J	8.9	470	200,000
Trichlorofluoromethane	ND	ND	NVG	NVG
Vinyl chloride	ND	ND	20	13,000
m,p-Xylene	14,300 J	ND	260	500,000
o-Xylene	3,510 J	ND	260	500,000
Xylene (total)	17,800 J	ND	260	500,000
<i>Notes:</i> All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion. Sample S-2 was collected from the structure located closest to the building. J - Indicates an etimated value ND - No Detection R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. NVG - No Value Given *6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6; Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.				

Table 12
Analytical Results of Volatile Organic Compounds In NYSDEC's Septic Samples
Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, New York

Sample ID Matrix Date Sampled	S-1 Soil 4/24/2013	S-2 Soil 4/24/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
VOCs via EPA Method 8260C				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Acetone	ND	ND	50	500,000
Benzene	ND	ND	60	44,000
Bromochloromethane	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	NVG	NVG
Bromoform	ND	ND	NVG	NVG
Bromomethane	ND	ND	NVG	NVG
2-Butanone (MEK)	ND	ND	NVG	NVG
Carbon disulfide	ND	ND	NVG	NVG
Carbon tetrachloride	ND	ND	760	22,000
Chlorobenzene	ND	ND	1,100	500,000
Chloroethane	ND	ND	NVG	NVG
Chloroform	ND	ND	370	NVG
Chloromethane	ND	ND	NVG	NVG
Cyclohexane	ND	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	NVG	NVG
1,1-Dichloroethane	30,000	220 J	270	240,000
1,2-Dichloroethane	ND	ND	20	30,000
1,1-Dichloroethene	ND	ND	330	500,000
cis-1,2-Dichloroethene	ND	ND	250	500,000
trans-1,2-Dichloroethene	ND	ND	190	500,000
1,2-Dichloropropane	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	NVG	NVG
1,4-Dioxane	ND	ND	100	130,000
Ethylbenzene	ND	ND	1,000	390,000
Freon 113	ND	ND	NVG	NVG
2-Hexanone	ND	ND	NVG	NVG
Isopropylbenzene	ND	ND	NVG	NVG
Methyl Acetate	ND	ND	NVG	NVG
Methylcyclohexane	ND	ND	NVG	NVG
Methyl Tert Butyl Ether	ND	ND	930	500,000
4-Methyl-2-pentanone(MIBK)	ND	ND	NVG	NVG
Methylene chloride	ND	ND	50	500,000
Styrene	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	NVG	NVG
Tetrachloroethene	7,500	ND	1,300	150,000
Toluene	3,100 J	ND	700	500,000
1,2,3-Trichlorobenzene	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	NVG	NVG
1,1,1-Trichloroethane	1,000,000	310 J	680	500,000
1,1,2-Trichloroethane	ND	ND	NVG	NVG
Trichloroethene	3,000 J	ND	470	200,000
Trichlorofluoromethane	ND	ND	NVG	NVG
Vinyl chloride	ND	ND	20	13,000
m,p-Xylene	ND	310 J	260	500,000
o-Xylene	ND	190 J	260	500,000
Xylene (total)	ND	500 J	260	500,000

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

Sample S-1 was collected from the structure located closest to the building.

J - Indicates an estimated value

ND - No Detection

NVG - No Value Given

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;

Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Bold and boxed indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Table 13
Analytical Results of Semi- Volatile Organic Compounds In NYSDEC's Septic Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	S-1 Soil 4/24/2013	S-2 Soil 4/24/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
SVOCs via EPA Method 8270c				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
2-Chlorophenol	ND	ND	NVG	NVG
4-Chloro-3-methyl phenol	ND	ND	NVG	NVG
2,4-Dichlorophenol	ND	ND	NVG	NVG
2,4-Dimethylphenol	ND	ND	NVG	NVG
2,4-Dinitrophenol	ND	ND	NVG	NVG
4,6-Dinitro-o-cresol	ND	ND	NVG	NVG
2-Methylphenol	ND	ND	NVG	NVG
3&4-Methylphenol	ND	ND	NVG	NVG
2-Nitrophenol	ND	ND	NVG	NVG
4-Nitrophenol	ND	ND	NVG	NVG
Pentachlorophenol	ND	ND	800	6,700
Phenol	ND	ND	330	500,000
2,3,4,6-Tetrachlorophenol	ND	ND	NVG	NVG
2,4,5-Trichlorophenol	ND	ND	NVG	NVG
2,4,6-Trichlorophenol	ND	ND	NVG	NVG
Acenaphthene	ND	ND	20,000	500,000
Acenaphthylene	ND	ND	100,000	500,000
Acetophenone	ND	ND	NVG	NVG
Anthracene	ND	ND	100,000	500,000
Atrazine	ND	ND	NVG	NVG
Benzaldehyde	ND	ND	NVG	NVG
Benzo(a)anthracene	ND	ND	1,000	5,600
Benzo(a)pyrene	15 J	ND	1,000	1,000
Benzo(b)fluoranthene	34 J	ND	1,000	5,600
Benzo(g,h,i)perylene	36 J	ND	100,000	500,000
Benzo(k)fluoranthene	ND	ND	800	56,000
4-Bromophenyl phenyl ether	ND	ND	NVG	NVG
Butyl benzyl phthalate	90 J	1,200 J	NVG	NVG
1,1'-Biphenyl	ND	ND	NVG	NVG
2-Chloronaphthalene	ND	ND	NVG	NVG
4-Chloroaniline	ND	ND	NVG	NVG
Carbazole	ND	ND	NVG	NVG
Caprolactam	ND	ND	NVG	NVG
Chrysene	ND	ND	1,000	56,000
bis(2-Chloroethoxy)methane	ND	ND	NVG	NVG
bis(2-Chloroethyl)ether	560	ND	NVG	NVG
bis(2-Chloroisopropyl)ether	ND	ND	NVG	NVG
4-Chlorophenyl phenyl ether	ND	ND	NVG	NVG
2,4-Dinitrotoluene	ND	ND	NVG	NVG
2,6-Dinitrotoluene	ND	ND	NVG	NVG
3,3'-Dichlorobenzidine	ND	ND	NVG	NVG
Dibenzo(a,h)anthracene	ND	ND	330	560
Dibenzofuran	ND	ND	NVG	NVG
Di-n-butyl phthalate	8,300	90,000	NVG	NVG
Di-n-octyl phthalate	ND	ND	NVG	NVG
Diethyl phthalate	ND	1,000 J	NVG	NVG
Dimethyl phthalate	ND	ND	NVG	NVG
bis(2-Ethylhexyl)phthalate	410	5,500	NVG	NVG
Fluoranthene	ND	ND	100,000	500,000
Fluorene	ND	ND	NVG	NVG
Hexachlorobenzene	ND	ND	NVG	NVG
Hexachlorobutadiene	ND	ND	NVG	NVG
Hexachlorocyclopentadiene	ND	ND	NVG	NVG
Hexachloroethane	ND	ND	NVG	NVG
Indeno(1,2,3-cd)pyrene	ND	ND	500	5,600
Isophorone	ND	ND	NVG	NVG
2-Methylnaphthalene	ND	ND	NVG	NVG
2-Nitroaniline	ND	ND	NVG	NVG
3-Nitroaniline	ND	ND	NVG	NVG
4-Nitroaniline	ND	ND	NVG	NVG
Naphthalene	ND	ND	1,200	500,000
Nitrobenzene	ND	ND	NVG	NVG
N-Nitroso-di-n-propylamine	ND	ND	NVG	NVG
N-Nitrosodiphenylamine	ND	ND	NVG	NVG
Phenanthrene	ND	ND	100,000	500,000
Pyrene	ND	ND	100,000	500,000
1,2,4,5-Tetrachlorobenzene	ND	ND	NVG	NVG

Notes:
All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
 Sample S-1 was collected from the structure located closest to the building.
 J - Indicates an estimated value
 ND - No Detection
 NVG - No Value Given
 Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Table 14
Analytical Results of Pesticides In NYSDEC's Septic Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	S-1 Soil 4/24/2013	S-2 Soil 4/24/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Pesticides via EPA Method 8081				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Aldrin	ND	ND	5	680
alpha-BHC	ND	ND	20	3,400
beta-BHC	ND	ND	36	3,000
delta-BHC	ND	ND	40	500,000
gamma-BHC (Lindane)	ND	ND	NVG	NVG
alpha-Chlordane	120	780	94	24,000
Dieldrin	ND	ND	5	1,400
4,4'-DDD	7.9 J	ND	3.3	92,000
4,4'-DDE	ND	ND	3.3	62,000
4,4'-DDT	ND	ND	3.3	47,000
Endrin	ND	ND	14	89,000
Endosulfan sulfate	ND	ND	NVG	NVG
Endrin aldehyde	ND	ND	NVG	NVG
Endrin ketone	ND	ND	NVG	NVG
Endosulfan-I	ND	ND	2,400	200,000
Endosulfan-II	ND	ND	2,400	200,000
Heptachlor	ND	ND	42	15,000
Heptachlor epoxide	ND	ND	NVG	NVG
Methoxychlor	ND	ND	NVG	NVG
Toxaphene	ND	ND	NVG	NVG

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

Sample S-1 was collected from the structure located closest to the building.

J - Indicates an etimated value

ND - No Detection

NVG - No Value Given

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Table 15
Analytical Results of PCBs In NYSDEC's Septic Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	S-1 Soil 4/24/2013	S-2 Soil 4/24/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
PCBs via EPA Method 8082				
Units	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>
Aroclor 1016	ND	ND	1,000	1,000
Aroclor 1221	ND	ND	1,000	1,000
Aroclor 1232	ND	ND	1,000	1,000
Aroclor 1242	ND	ND	1,000	1,000
Aroclor 1248	ND	ND	1,000	1,000
Aroclor 1254	ND	ND	1,000	1,000
Aroclor 1260	ND	ND	1,000	1,000
Aroclor 1268	ND	ND	1,000	1,000
Aroclor 1262	ND	ND	1,000	1,000

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

Sample S-1 was collected from the structure located closest to the building.

ND - No Detection

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Table 16
Analytical Results of Metals In NYSDEC's Septic Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID Matrix Date Sampled	S-1 Soil 4/24/2013	S-2 Soil 4/24/2013	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Metals via EPA Method SW6010/SW7471B				
Units	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
Aluminum	4,320	4,760	NVG	NVG
Antimony	ND	ND	NVG	NVG
Arsenic	3.0	2.7	13	16
Barium	22.4 J	18.8 J	350	400
Beryllium	ND	0.23 J	7.2	590
Cadmium	ND	ND	2.5	9.3
Calcium	4,500	865 J	NVG	NVG
Chromium	9.6	8.4	30	1,500
Cobalt	3.9 J	2.8 J	NVG	NVG
Copper	16.0	18.1	50	270
Iron	9,540	8,780	NVG	NVG
Lead	27.4	34.2	63	1,000
Magnesium	1,130 J	915 J	NVG	NVG
Manganese	147	110	1,600	10,000
Mercury	2.2	0.074	0.18	2.8
Nickel	10.2	8.8	30	310
Potassium	295 J	277 J	NVG	NVG
Selenium	ND	ND	3.9	1,500
Silver	ND	ND	2	1,500
Sodium	ND	ND	NVG	NVG
Thallium	ND	ND	NVG	NVG
Vanadium	10.7 J	12.5	NVG	NVG
Zinc	32.8	32.6	109	10,000

Notes:

All concentrations are reported in milligrams per kilogram (mg/kg) or parts per million.

Sample S-1 was collected from the structure located closest to the building.

J - Indicates an estimated value

NVG - No Value Given

*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6

Table 375-6.8(a): Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Table 17
Volatile Organic Compounds in Exterior Soil Vapor and Ambient Air Samples
1801 Falmouth Avenue
New Hyde Park, NY

Sample ID	SV-1	SV-2	SV-3	SV-4	SV-X	*NYSDOH 2006	AA-1	*NYSDOH 2006
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Matrix1/Matrix 2	Ambient Air	Matrix1/Matrix 2
Date Sampled	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	Sub-Slab Vapor	9/19/2013	Indoor Air
Volatile Organic Compounds								
Units	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³
Acetone	24.7	309	354	25.7	352	NS	13	NS
1,3-Butadiene	ND	ND	ND	ND	ND	NS	ND	NS
Benzene	8.0	8.3	170	11	190	NS	0.80	NS
Bromodichloromethane	ND	33	ND	ND	ND	NS	ND	NS
Bromoform	ND	ND	ND	ND	ND	NS	ND	NS
Bromomethane	ND	ND	ND	ND	ND	NS	ND	NS
Bromoethene	ND	ND	ND	ND	ND	NS	ND	NS
Benzyl Chloride	ND	ND	ND	ND	ND	NS	ND	NS
Carbon disulfide	19	14	214	3.7	225	NS	ND	NS
Chlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
Chloroethane	ND	9.2	5,120 DL	4.7	4,640 DL	NS	ND	NS
Chloroform	20	292	ND	122	ND	NS	ND	NS
Chloromethane	ND	ND	ND	ND	ND	NS	0.89	NS
3-Chloropropene	ND	ND	ND	ND	ND	NS	ND	NS
2-Chlorotoluene	ND	ND	ND	ND	ND	NS	ND	NS
Carbon tetrachloride	ND	19	ND	ND	ND	< 5	ND	< 0.25
Cyclohexane	ND	ND	916	2.4 J	1020	NS	ND	NS
1,1-Dichloroethane	68.8	635	498	2030	546	NS	ND	NS
1,1-Dichloroethylene	ND	4.8	ND UJ	15	81.3 J	< 100	ND	< 3
1,2-Dibromoethane	ND	ND	ND	ND	ND	NS	ND	NS
1,2-Dichloroethane	ND	ND	43.7	ND	ND	NS	ND	NS
1,2-Dichloropropane	ND	ND	ND	ND	ND	NS	ND	NS
1,4-Dioxane	ND	ND	ND	ND	ND	NS	ND	NS
Dichlorodifluoromethane	4.0	5.4	ND	14	ND	NS	2.4	NS
Dibromochloromethane	ND	3.3 J	ND	ND	ND	NS	ND	NS
trans-1,2-Dichloroethylene	ND	6.7	408	83.3	456	NS	ND	NS
cis-1,2-Dichloroethylene	11	2.9 J	126	615 D	138	<100	ND	< 3
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS	ND	NS
m-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
o-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
p-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS	ND	NS
Ethanol	ND	9.0	ND	ND	ND	NS	11	NS
Ethylbenzene	3.3 J	3.3 J	1060	3.3 J	1050	NS	0.56 J	NS
Ethyl acetate	ND	ND	ND	ND	ND	NS	2.1	NS
4-Ethyltoluene	ND	ND	ND	1.9 J	ND	NS	ND	NS
Freon 113	ND	ND	ND	ND	ND	NS	ND	NS
Freon 114	ND	ND	ND	ND	ND	NS	ND	NS
Heptane	2.2 J	4.1	869	1.8 J	943	NS	0.74 J	NS
Hexachlorobutadiene	ND	ND	ND	ND	ND	NS	ND	NS
Hexane	1.8 J	4.9	472	3.2	518	NS	1.2	NS
2-Hexanone	ND	ND	ND	ND	ND	NS	ND	NS
Isopropyl Alcohol	ND	5.9	ND	ND	ND	NS	2.1	NS
Methylene chloride	4.2	48.3	245	3.5	251	NS	1.6	NS
Methyl ethyl ketone	18	36.0	178	6.2	196	NS	1.5	NS
Methyl Isobutyl Ketone	ND	ND	ND	ND	ND	NS	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	NS	ND	NS
Methylmethacrylate	ND	ND	ND	ND	ND	NS	ND	NS
Propylene	ND	14	1100	13	1090	NS	ND	NS
Styrene	ND	ND	ND	ND	ND	NS	ND	NS
1,1,1-Trichloroethane	617	617	11 J	3,260 D	14 J	< 100	ND	< 3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	NS	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	2.1 J	ND	NS	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trimethylbenzene	7.4	38	ND	7.9	ND	NS	0.84 J	NS
1,3,5-Trimethylbenzene	ND	ND	ND UJ	2.0 J	188 J	NS	ND	NS
2,2,4-Trimethylpentane	ND	ND	757	ND	822	NS	1.3	NS
Tertiary Butyl Alcohol	ND	5.5	21	5.8	ND	NS	ND	NS
Tetrachloroethylene	6,470 D	293	ND	5,150 D	4.5 J	< 100	0.95	< 3
Tetrahydrofuran	6.8	2.9	ND	2.3 J	ND	NS	ND	NS
Toluene	8.3	18	388	7.9	433	NS	3.4	NS
Trichloroethylene	91.4	62.3	53	1,690 D	64.0	< 5	ND	< 0.25
Trichlorofluoromethane	4.1 J	8.4	ND	7.3	ND	NS	1.4	NS
Vinyl chloride	ND	3.8	1,080	ND	1,150	< 5	ND	< 0.25
Vinyl Acetate	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	NS	ND UJ	NS
m,p-Xylene	11	9.1	925	10	912	NS	1.7	NS
o-Xylene	3.9	3.7	24	3.6	21	NS	0.65 J	NS
Xylenes (total)	15	13	951	13	930	NS	2.3	NS

Notes:

J- Analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.

SV-X is a duplicate of SV-3

ND- Not detected at or above laboratory detection limits. *NYSDOH guidance for evaluating Soil Vapor in the State of New York

NS- No standard for specific compound

Oct. 2006 Matrix 1 & 2 levels for "No Further Action"

a - Results from Run #2

D - Analyte concentration obtained from dilution.

µg/m³ - micrograms per cubic meters

UJ - The analyte was not detected above the reported sample quantitation limit.

Table 18
Volatile Organic Compounds in Sub-Slab Vapor and Indoor Air Samples
1801 Falmouth Avenue
New Hyde Park, NY

Sample ID Matrix Date Sampled	SSV-1	SSV-2	SSV-3	SSV-4	*NYSDOH 2006	IA-1	*NYSDOH 2006
	Sub-Slab Vapor 9/19/2013	Sub-Slab Vapor 9/19/2013	Sub-Slab Vapor 9/19/2013	Sub-Slab Vapor 9/19/2013	Matrix1/Matrix 2 Sub-Slab Vapor	Indoor Air 9/19/2013	Matrix1/Matrix 2 Indoor Air
Volatile Organic Compounds							
Units	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³
Acetone	1050	49.9	39.9	297	NS	79.8	NS
1,3-Butadiene	ND	ND	ND	ND	NS	ND	NS
Benzene	ND	7.3 J	3.2	2.5 J	NS	1.0	NS
Bromodichloromethane	ND	ND	ND	ND	NS	ND	NS
Bromoform	ND	ND	ND	ND	NS	ND	NS
Bromomethane	ND	ND	ND	ND	NS	ND	NS
Bromoethene	ND	ND	ND	ND	NS	ND	NS
Benzyl Chloride	ND	ND	ND	ND	NS	ND	NS
Carbon disulfide	ND	ND	ND	ND	NS	ND	NS
Chlorobenzene	ND	ND	ND	ND	NS	ND	NS
Chloroethane	ND	14	ND	ND	NS	ND	NS
Chloroform	ND	131	ND	ND	NS	ND	NS
Chloromethane	ND	ND	ND	ND	NS	1.2	NS
3-Chloropropene	ND	ND	ND	ND	NS	ND	NS
2-Chlortoluene	ND	ND	ND	ND	NS	ND	NS
Carbon tetrachloride	ND	ND	ND	ND	< 5	ND	< 0.25
Cyclohexane	ND	ND	ND	ND	NS	1.2	NS
1,1-Dichloroethane	11700	5,870 D	1.6 J	19	NS	ND	NS
1,1-Dichloroethylene	271	210	ND	ND	< 100	ND	< 3
1,2-Dibromoethane	ND	ND	ND	ND	NS	ND	NS
1,2-Dichloroethane	38 J	ND	ND	ND	NS	ND	NS
1,2-Dichloropropane	ND	ND	ND	ND	NS	ND	NS
1,4-Dioxane	166	ND	ND	ND	NS	ND	NS
Dichlorodifluoromethane	ND	49.4	ND	19	NS	2.2	NS
Dibromochloromethane	ND	ND	ND	ND	NS	ND	NS
trans-1,2-Dichloroethylene	ND	106	ND	ND	NS	ND	NS
cis-1,2-Dichloroethylene	ND	547	ND	ND	<100	ND	< 3
cis-1,3-Dichloropropene	ND	ND	ND	ND	NS	ND	NS
m-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
o-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
p-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	NS	ND	NS
Ethanol	ND	34.9	ND	ND	NS	271 L	NS
Ethylbenzene	ND	10 J	7.4	6.9	NS	1.9	NS
Ethyl acetate	ND	ND	ND	7.6	NS	5.4	NS
4-Ethyltoluene	ND	ND	2.7 J	ND	NS	0.84 J	NS
Freon 113	ND	ND	ND	ND	NS	ND	NS
Freon 114	ND	ND	ND	31	NS	ND	NS
Heptane	ND	ND	ND	ND	NS	1.3	NS
Hexachlorobutadiene	ND	ND	ND	ND	NS	ND	NS
Hexane	ND	9.9 J	3.3	3	NS	6.7	NS
2-Hexanone	ND	ND	ND	ND	NS	ND	NS
Isopropyl Alcohol	327	ND	ND	ND	NS	16	NS
Methylene chloride	ND	20	6.3	11	NS	1.5	NS
Methyl ethyl ketone	ND	ND	11	9.4	NS	4.7	NS
Methyl Isobutyl Ketone	ND	ND	ND	ND	NS	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	16	NS	ND	NS
Methylmethacrylate	ND	ND	ND	ND	NS	ND	NS
Propylene	ND	ND	ND	13	NS	ND	NS
Styrene	ND	ND	3.1 J	ND	NS	3.9	NS
1,1,1-Trichloroethane	182,000 D	18,800 D	31	400	< 100	1.3	< 3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NS	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trimethylbenzene	ND	11 J	9.8	13	NS	2.7	NS
1,3,5-Trimethylbenzene	ND	ND	2.8 J	3.0 J	NS	0.84 J	NS
2,2,4-Trimethylpentane	ND	ND	ND	ND	NS	1.7	NS
Tertiary Butyl Alcohol	ND	ND	ND	30	NS	ND	NS
Tetrachloroethylene	351	396	237	171	< 100	3.8	< 3
Tetrahydrofuran	ND	ND	10	5.6	NS	0.91	NS
Toluene	45.6 J	15	20	26	NS	17	NS
Trichloroethylene	34	5,750 D	14	3.5	< 5	0.3	< 0.25
Trichlorofluoromethane	ND	59.6	ND	10	NS	1.5	NS
Vinyl chloride	ND	ND	ND	ND	< 5	ND	< 0.25
Vinyl Acetate	ND	ND	ND	ND	NS	ND UJ	
m,p-Xylene	46.9 J	38	26	24	NS	7.4	NS
o-Xylene	ND	12 J	9.6	8.7	NS	2.6	NS
Xylenes (total)	46.9 J	50.0	36	33	NS	10	NS

Notes:

1.- Analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.

ND- Not detected at or above laboratory detection limits. D - Analyte concentration obtained from dilution.

NS- No standard for specific compound

a -Result is from run #2

*NYSDOH guidance for evaluating Soil Vapor in the State of New York Oct. 2006 Mat

111 The analyte was not detected at

TABLE 19 Summary of Volatile Organic Compounds in Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	MW-1	MW-2	MW-3	MW-4	MW-X	Field Blank	Trip Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	
Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	ND	ND	ND	235 JD	ND UJ	ND UJ	ND UJ	50
Acetone	ND	ND	ND	21.9	ND	ND	ND	1
Benzene	ND	ND	ND	ND	ND	ND	ND	5
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	5
Bromomethane	ND	ND	ND	ND	ND	ND	ND	50
2-Butanone (MEK)	ND	ND	ND	0.74 J	ND	ND	ND	NVG
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	5
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	1,630 D	ND	ND	ND	5
Chloroethane	3.0	ND	ND	ND	ND	ND	ND	7
Chloroform	ND	ND	ND	4.5	ND	ND	ND	NVG
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	0.04
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	NVG
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	0.32 J	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
Dichlorodifluoromethane	ND	ND	ND	1,790 D	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	3.0	ND	ND	ND	0.6
1,2-Dichloroethane	ND	ND	ND	42.5	ND	ND	ND	5
1,1-Dichloroethene	ND	1.8	ND	97.1	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	14.5	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	0.4
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	NVG
1,4-Dioxane	ND	ND	ND	47.1	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	NVG
Freon-113	ND	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	6.3	ND	ND	ND	5
Isopropylbenzene	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	NVG
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	0.44 J	ND	ND	ND	10
Methyl Tert Butyl Ether	ND UJ	ND UJ	ND UJ	ND UJ	ND	ND	ND	NVG
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	69.1	ND	ND	ND	5
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	3.0	8.0	3.6 J	13.2	1.5 J	ND	ND	5
Toluene	ND	ND	ND	347 D	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	2.5	ND	962 D	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	10.3	ND	ND	ND	1
Trichloroethene	ND	2.3	ND	198	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	1.2 J	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	45.5	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	72.6	ND	ND	ND	5
o-Xylene	ND	ND	ND	38.8	ND	ND	ND	5
Xylene (total)	ND	ND	ND	111	ND	ND	ND	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.								
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 MW-X is a duplicate of MW-3 D= Analyte concentration obtained from dilution.				

TABLE 20 Summary of Semi- Volatile Organic Compounds in Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	MW-1	MW-2	MW-3	MW-4	MW-X	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	
Semi-Volatile Organic Compounds							
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
2-Chlorophenol	ND	ND	ND	ND	ND	ND	NVG
4-Chloro-3-methyl phenol	ND	ND	ND	ND	ND	ND	NVG
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	5
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND UJ	ND	ND UJ	ND	ND	10
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	NVG
2-Methylphenol	ND	ND	ND	ND	ND	ND	1
3&4-Methylphenol	ND	ND	ND	200	ND	ND	1
2-Nitrophenol	ND	ND	ND	ND	ND	ND	NVG
4-Nitrophenol	ND	ND	ND	ND	ND	ND	NVG
Pentachlorophenol	ND	ND	ND	ND	ND	ND	NVG
Phenol	ND	ND	ND	107	ND	ND	1
2,3,4,6-Tetrachlorophenol	ND	ND	ND	ND	ND	ND	NVG
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	NVG
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	NVG
Acenaphthene	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	NVG
Acetophenone	ND	ND	ND	ND	ND	ND	NVG
Anthracene	ND	ND	ND	ND	ND	ND	50
Atrazine	ND	ND	ND	ND	ND	ND	7.5
Benzaldehyde	ND	ND	ND	ND	ND	ND	NVG
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	0.002
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	NVG
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	0.002
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	NVG
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	0.002
1,1'-Biphenyl	ND	ND	ND	ND	ND	ND	NVG
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	50
Butyl benzyl phthalate	ND	ND	ND	5.0 J	ND	ND	5
Caprolactam	ND UJ	ND	ND	ND	ND	ND	10
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	5
4-Chloroaniline	ND	ND	ND	ND	ND	ND	NVG
Carbazole	ND	ND	ND	ND	ND	ND	NVG
Chrysene	ND	ND	ND	ND	ND	ND	0.002
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	5
bis(2-Chloroethyl)ether	ND	ND	ND	15	ND	ND	1
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	NVG
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	NVG
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	5
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	5
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	NVG
Dibenzofuran	ND	ND	ND	ND	ND	ND	NVG
Di-n-butyl phthalate	ND	ND	ND	260	0.65 J	ND	50
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	50
Diethyl phthalate	ND	ND	ND	195	ND	ND	50
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	50
bis(2-Ethylhexyl)phthalate	ND	ND	ND	16.5	0.59 J	ND	5
Fluoranthene	ND	ND	ND	ND	ND	ND	50
Fluorene	ND	ND	ND	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	0.04
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND UJ	ND	ND UJ	ND	ND	5
Hexachloroethane	ND	ND	ND	ND	ND	ND	5
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	0.002
Isophorone	ND	ND	0.56 J	ND	0.54 J	ND	50
2-Methylnaphthalene	ND	ND	ND	2.5 J	ND	ND	NVG
2-Nitroaniline	ND	ND	ND	ND	ND	ND	5
3-Nitroaniline	ND	ND	ND	ND	ND	ND	5
4-Nitroaniline	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	10
Nitrobenzene	ND	ND	ND	ND	ND	ND	0.4
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	NVG
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	50
Phenanthrene	ND	ND	ND	ND	ND	ND	50
Pyrene	ND	ND	ND	ND	ND	ND	50
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND	NVG
Notes: All concentrations are reported in micrograms per liter (µg/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.							
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 MW-X is a duplicate of MW-3			

TABLE 21 Summary of Pesticides and PCBs in Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY	

Sample ID	MW-1	MW-2	MW-3	MW-X	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	
Pesticides						
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	ND	ND	ND	ND	ND	0.002
alpha-BHC	ND	ND	ND	ND	ND	NVG
beta-BHC	ND	ND	ND	ND	ND	NVG
delta-BHC	ND	ND	ND	ND	ND	NVG
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	NVG
alpha-Chlordane	0.036 JN	ND	ND	ND	ND	0.05
gamma-Chlordane	0.022	ND	ND	ND	ND	0.05
Dieldrin	0.091	ND	ND	ND	ND	0.004
4,4'-DDD	ND	ND	ND	ND	ND	0.3
4,4'-DDE	ND	ND	ND	ND	ND	0.2
4,4'-DDT	ND	ND	ND	ND	ND	0.2
Endrin	ND	ND	ND	ND	ND	0.2
Endosulfan sulfate	ND	ND	ND	ND	ND	0.009
Endrin aldehyde	ND	ND	ND	ND	ND	5
Endrin ketone	ND	ND	ND	ND	ND	5
Endosulfan-I	0.029	ND	ND	ND	ND	NVG
Endosulfan-II	ND	ND	ND	ND	ND	NVG
Heptachlor	ND	ND	ND	ND	ND	0.04
Heptachlor epoxide	0.019	ND	ND	ND	ND	0.03
Methoxychlor	ND	ND	ND	ND	ND	35
Toxaphene	ND	ND	ND	ND	ND	0.06
PCBs						
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	ND	ND	ND	ND	ND	0.09**
Aroclor 1221	ND	ND	ND	ND	ND	0.09**
Aroclor 1232	ND	ND	ND	ND	ND	0.09**
Aroclor 1242	ND	ND	ND	ND	ND	0.09**
Aroclor 1248	ND	ND	ND	ND	ND	0.09**
Aroclor 1254	ND	ND	ND	ND	ND	0.09**
Aroclor 1260	ND	ND	ND	ND	ND	0.09**
Aroclor 1268	ND	ND	ND	ND	ND	0.09**
Aroclor 1262	ND	ND	ND	ND	ND	0.09**

Notes:

All concentrations are reported in micrograms per liter (µg/L) or parts per billion.

Bold and boxed indicates compound exceeds TOGS Standards. Series (1.1.1) Ambient Water Quality Standards

J=Analyte detected below quantitation limits. and Guidance Values, June 1998

ND= Indicates the compound was analyzed for but not detected. **Applies to the sum of these compounds

NVG - No Value Given MW-X is a duplicate of MW-3

JN= The analysis indicates the presence of an analyte that has been "tentatively identified"

and the associated numerical value represents its approximate quantity.

*NYSDEC Technical and Operational Guidance

Series (1.1.1) Ambient Water Quality Standards

and Guidance Values, June 1998

**Applies to the sum of these compounds

MW-X is a duplicate of MW-3

TABLE 22
Summary of Metals in Groundwater Samples
Former Zoe Chemical
1801 Falmouth Street
New Hyde Park, NY

Sample ID	MW-1	MW-2	MW-3	MW-X	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	5/14/2013	5/14/2013	5/14/2013	5/14/2013	5/14/2013	
Metals (Total)						
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			348 J	6,850 J	<200	100
Aluminum	<200	<200	<6.0	<6.0	<6.0	3
Antimony	<6.0	<6.0	<3.0	<3.0	<3.0	25
Arsenic	<3.0	<3.0	<200	<200	<200	1,000
Barium	231	<200	<1.0	<1.0	<1.0	75
Beryllium	<1.0	<1.0	<3.0	<3.0	<3.0	5
Cadmium	<3.0	<3.0	<3.0	<3.0	<3.0	5
Calcium	100,000	86,100	38,100	39,400	<5,000	NVG
Chromium	<10	<10	<10 UJ	33.4 J	<10	50
Cobalt	<50	<50	<50	<50	<50	5
Copper	<10	<10	<10	10.9	<10	200
Iron	<100	<100	731 J	14,300 J	<100	300
Lead	<3.0	<3.0	<3.0 UJ	5.9 J	<3.0	25
Magnesium	9,380	11,100	5,590	6,560	<5,000	35,000
Manganese	970	1,850	36.5 J	333 J	<15	300
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	0.7
Nickel	<10	<10	<10 UJ	15.4 J	<10	100
Potassium	<10,000	11,900	<10,000	<10,000	<10,000	NVG
Selenium	<10	<10	<10	<10	<10	10
Silver	<10	<10	<10	<10	<10	50
Sodium	170,000	86,000	71,300	72,400	<10,000	20,000
Thallium	<2.0	<2.0	<2.0	<2.0	<2.0	0.5
Vanadium	<50	<50	<50	<50	<50	14
Zinc	<20	<20	<20 UJ	26.3 J	<20	2,000
Metals (Dissolved)						
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aluminum	<200	<200	<200	<200	<200	100
Antimony	<6.0	<6.0	<6.0	<6.0	<6.0	3
Arsenic	<3.0	<3.0	<3.0	<3.0	<3.0	25
Barium	228	<200	<200	<200	<200	1,000
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	75
Cadmium	<3.0	<3.0	<3.0	<3.0	<3.0	5
Calcium	100,000	82,300	38,600	39,400	<5,000	NVG
Chromium	<10	<10	<10	<10	<10	50
Cobalt	<50	<50	<50	<50	<50	5
Copper	<10	<10	<10	<10	<10	200
Iron	<100	<100	<100	<100	<100	300
Lead	<3.0	<3.0	<3.0	<3.0	<3.0	25
Magnesium	9,340	10,400	5,660	5,810	<5,000	35,000
Manganese	948	1,810	19.1	22.8	<15	300
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	0.7
Nickel	<10	<10	<10	<10	<10	100
Potassium	<10,000	11,600	<10,000	<10,000	<10,000	NVG
Selenium	<10	<10	<10	<10	<10	10
Silver	<10	<10	<10	<10	<10	50
Sodium	170,000	84,100	71,900	73,500	<10,000	20,000
Thallium	<2.0	<2.0	<2.0	<2.0	<2.0	0.5
Vanadium	<50	<50	<50	<50	<50	14
Zinc	<20	<20	<20	<20	<20	2,000

Notes:

All concentrations are reported in milligrams per liter (mg/L) or parts per million.

ND= Indicates the compound was analyzed for but not detected.

NVG = No Value Given

Bold and boxed indicates compound exceeds TOGS Standards.

J= Analyte detected below quantitation limit:

*NYSDEC Technical and Operational Guidance

Series (1.1.1) Ambient Water Quality Standards

MW-X is a duplicate of MW-3

and Guidance Values. June 1998.

UJ= The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 23 Summary of Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-1 (30 feet)	DGB-1 (40 feet)	DGB-1 (50 feet)	DGB-1 (60 feet)	DGB-1 (70 feet)	DGB-1 (80 feet)	DGB-1 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	
Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	ND	6.6 J	ND	4.5 J	51.5	27.4	10.3	50
Acetone	ND	ND	ND	ND	0.44 J	0.48 J	0.42 J	1
Benzene	ND	ND	ND	ND	ND	ND	ND	5
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	5
Bromomethane	ND	ND	ND	ND	8.6 J	5.2 J	ND	50
2-Butanone (MEK)	ND	0.50 J	ND	0.88 J	0.97 J	1.1 J	3.2	NVG
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	5
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	5.9	6.6	6	5
Chloroethane	ND	ND	ND	ND	2.3	2.2	2.1	7
Chloroform	5.2	0.30 J	ND	ND	ND	ND	ND	NVG
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	1	ND	ND	ND	0.62 J	0.66 J	0.50 J	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND UJ	ND UJ	ND	ND	ND	ND	ND	NVG
Ethylbenzene	ND	ND	ND	ND	0.30 J	0.37 J	0.36 J	5
Freon-113	ND	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	0.97 J	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	5
Tetrachloroethene	0.47 J	ND	ND	ND	ND	ND	ND	5
Toluene	ND	0.83 J	ND	0.92 J	1.9	2	2.3	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	1	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	0.42 J	ND	ND	0.57 J	0.55 J	0.65 J	5
o-Xylene	ND	ND	ND	ND	ND	0.21 J	0.24 J	5
Xylene (total)	ND	0.42 J	ND	0.29 J	0.57 J	0.76 J	0.90 J	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. *NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample								

TABLE 23 Summary of Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-2 (30 feet)	DGB-2 (40 feet)	DGB-2 (50 feet)	DGB-2 (60 feet)	DGB-2 (70 feet)	DGB-2 (80 feet)	DGB-2 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	
Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	5.4 J	ND	ND	ND	ND	ND	8.5 J	50
Benzene	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND UJ	ND UJ	ND	ND	ND	ND	ND	NVG
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Freon-113	ND	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	0.89 J	2.1	ND	ND	ND	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	1.2	ND	ND	ND	ND	ND	0.66 J	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	5
o-Xylene	ND	ND	ND	ND	ND	ND	ND	5
Xylene (total)	ND	ND	ND	ND	ND	ND	0.22 J	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample								
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998				

TABLE 23 Summary of Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	DGB-3 (35 feet)	DGB-3 (45 feet)	DGB-3 (55 feet)	DGB-4 (35 feet)	DGB-4 (45 feet)	DGB-4 (55 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/8/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/9/2013	
Volatile Organic Compounds							
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND	ND	ND	14.3 J	ND	ND	50
Benzene	ND	ND	ND	0.70 J	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	50
Bromoform	ND UJ	ND UJ	ND UJ	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	0.27 J	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	5
Chloroform	23.7	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	0.44 J	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND	ND	ND	ND	ND	ND	NVG
Ethylbenzene	ND	0.63 J	0.67 J	0.97 J	0.59 J	0.38 J	5
Freon-113	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	1.4	ND	ND	ND UJ	ND	ND	5
Toluene	0.79 J	2.7	3.1	6.7 J	2.4	1.4	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	0.54 J	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	2	2	1.4 J	0.60 J	ND	5
o-Xylene	ND	0.89 J	1.1	0.94 J	0.33 J	ND	5
Xylene (total)	0.23 J	2.9	3.1	2.4 J	0.94 J	ND	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample							
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998			

TABLE 23 Summary of Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-5 (30 feet)	DGB-5 (40 feet)	DGB-5 (50 feet)	DGB-5 (60 feet)	DGB-5 (70 feet)	DGB-2 (80 feet)	DGB-5 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	
Volatile Organic Compounds								
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND	ND	ND	ND	ND	ND	ND	50
Benzene	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND UJ	ND UJ	ND	ND	ND	ND	ND UJ	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	0.42 J	ND	0.33 J	0.38 J	0.40 J	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	0.66 J	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	NVG
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Freon-113	ND	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	5.8	2.2	0.93 J	ND	ND	ND	ND	5
Toluene	ND	ND	0.68 J	ND	0.45 J	0.58 J	0.75 J	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	0.95 J	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	ND	ND	ND	0.55 J	5
o-Xylene	ND	ND	ND	ND	ND	ND	0.21 J	5
Xylene (total)	ND	ND	ND	ND	ND	ND	0.77 J	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample								
					*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998			

TABLE 23 Summary of Volatile Organic Compounds in Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	SGB-1 (30 feet)	SGB-2 (30 feet)	DGB-X	DGB-XX	Field Blank	Field Blank	Trip Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	Aqueous	TOGS*
Date Sampled	10/8/2013	10/9/2013	10/7/2013	10/9/2013	10/8/2013	10/9/2013	10/10/2013	
Volatile Organic Compounds								
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND	ND	ND	32.5 J	ND	ND	ND	50
Benzene	ND	ND	ND	ND UJ	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND UJ	ND	ND UJ	ND	ND UJ	ND UJ	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	0.33 J	ND	ND	ND	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	3.4	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	2.4	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	0.70 J	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	0.4
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	NVG
Ethylbenzene	0.56 J	ND	ND	0.46 J	ND	ND	ND	5
Freon-113	ND	ND	ND	ND	ND	ND	ND	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	NVG
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	0.49 J	2	0.90 J	1.9 J	ND	ND	ND	5
Toluene	1.2	ND	ND	2.4 J	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	33.1	0.54 J	1.2	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	1.7	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	0.65 J	ND	ND	0.89 J	ND	ND	ND	5
o-Xylene	0.32 J	ND	ND	0.42 J	ND	ND	ND	5
Xylene (total)	0.97 J	ND	ND	1.3 J	ND	ND	ND	5
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG= No Value Given UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample								
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 DGB-X is a duplicate of DGB-2 (30 feet) DGB-XX is a duplicate of DGB-4 (35 feet)				

TABLE 24 Summary of Semi- Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID Matrix Date Sampled	DGB-1 (30 feet) Groundwater 10/6/2013	DGB-1 (40 feet) Groundwater 10/6/2013	DGB-1 (50 feet) Groundwater 10/6/2013	DGB-1 (60 feet) Groundwater 10/6/2013	DGB-1 (70 feet) Groundwater 10/6/2013	DGB-1 (80 feet) Groundwater 10/6/2013	DGB-1 (85 feet) Groundwater 10/6/2013	NYSDEC TOGS*
Semi-Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
4-Chloro-3-methyl phenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4-Dichlorophenol	ND	NA	NA	NA	NA	NA	NA	5
2,4-Dimethylphenol	ND	NA	NA	NA	NA	NA	NA	50
2,4-Dinitrophenol	ND	NA	NA	NA	NA	NA	NA	10
4,6-Dinitro-o-cresol	ND	NA	NA	NA	NA	NA	NA	NVG
2-Methylphenol	ND	NA	NA	NA	NA	NA	NA	1
3&4-Methylphenol	ND	NA	NA	NA	NA	NA	NA	1
2-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NVG
4-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Pentachlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Phenol	ND	NA	NA	NA	NA	NA	NA	1
2,3,4,6-Tetrachlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4,5-Trichlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4,6-Trichlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Acenaphthene	ND	NA	NA	NA	NA	NA	NA	20
Acenaphthylene	ND	NA	NA	NA	NA	NA	NA	NVG
Acetophenone	ND	NA	NA	NA	NA	NA	NA	NVG
Anthracene	ND	NA	NA	NA	NA	NA	NA	50
Atrazine	ND	NA	NA	NA	NA	NA	NA	7.5
Benzaldehyde	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(a)anthracene	ND	NA	NA	NA	NA	NA	NA	0.002
Benzo(a)pyrene	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(b)fluoranthene	ND	NA	NA	NA	NA	NA	NA	0.002
Benzo(g,h,i)perylene	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(k)fluoranthene	ND	NA	NA	NA	NA	NA	NA	0.002
1,1'-Biphenyl	ND	NA	NA	NA	NA	NA	NA	NVG
4-Bromophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	50
Butyl benzyl phthalate	ND	NA	NA	NA	NA	NA	NA	5
Caprolactam	ND	NA	NA	NA	NA	NA	NA	10
2-Chloronaphthalene	ND	NA	NA	NA	NA	NA	NA	5
4-Chloroaniline	ND	NA	NA	NA	NA	NA	NA	NVG
Carbazole	ND	NA	NA	NA	NA	NA	NA	NVG
Chrysene	ND	NA	NA	NA	NA	NA	NA	0.002
bis(2-Chloroethoxy)methane	ND	NA	NA	NA	NA	NA	NA	5
bis(2-Chloroethyl)ether	0.93 J	NA	NA	NA	NA	NA	NA	1
bis(2-Chloroisopropyl)ether	ND	NA	NA	NA	NA	NA	NA	NVG
4-Chlorophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NVG
2,4-Dinitrotoluene	ND	NA	NA	NA	NA	NA	NA	5
2,6-Dinitrotoluene	ND	NA	NA	NA	NA	NA	NA	5
3,3'-Dichlorobenzidine	ND	NA	NA	NA	NA	NA	NA	5
Dibenzo(a,h)anthracene	ND	NA	NA	NA	NA	NA	NA	NVG
Dibenzofuran	ND	NA	NA	NA	NA	NA	NA	NVG
Di-n-butyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Di-n-octyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Diethyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Dimethyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
bis(2-Ethylhexyl)phthalate	ND	NA	NA	NA	NA	NA	NA	5
Fluoranthene	ND	NA	NA	NA	NA	NA	NA	50
Fluorene	ND	NA	NA	NA	NA	NA	NA	50
Hexachlorobenzene	ND	NA	NA	NA	NA	NA	NA	0.04
Hexachlorobutadiene	ND	NA	NA	NA	NA	NA	NA	0.5
Hexachlorocyclopentadiene	ND	NA	NA	NA	NA	NA	NA	5
Hexachloroethane	ND	NA	NA	NA	NA	NA	NA	5
Indeno(1,2,3-cd)pyrene	ND	NA	NA	NA	NA	NA	NA	0.002
Isophorone	ND	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	ND	NA	NA	NA	NA	NA	NA	NVG
2-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
3-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
4-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
Naphthalene	ND	NA	NA	NA	NA	NA	NA	10
Nitrobenzene	ND	NA	NA	NA	NA	NA	NA	0.4
N-Nitroso-di-n-propylamine	ND	NA	NA	NA	NA	NA	NA	NVG
N-Nitrosodiphenylamine	ND	NA	NA	NA	NA	NA	NA	50
Phenanthrene	ND	NA	NA	NA	NA	NA	NA	50
Pyrene	ND	NA	NA	NA	NA	NA	NA	50
1,2,4,5-Tetrachlorobenzene	ND	NA	NA	NA	NA	NA	NA	NVG
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given								
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 NA=Not Analyzed								

TABLE 24 Summary of Semi- Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-2 (30 feet)	DGB-2 (40 feet)	DGB-2 (50 feet)	DGB-2 (60 feet)	DGB-2 (70 feet)	DGB-2 (80 feet)	DGB-2 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	10/7/2013	
Semi-Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
4-Chloro-3-methyl phenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4-Dichlorophenol	ND	NA	NA	NA	NA	NA	NA	5
2,4-Dimethylphenol	ND	NA	NA	NA	NA	NA	NA	50
2,4-Dinitrophenol	ND	NA	NA	NA	NA	NA	NA	10
4,6-Dinitro-o-cresol	ND	NA	NA	NA	NA	NA	NA	NVG
2-Methylphenol	ND	NA	NA	NA	NA	NA	NA	1
3&4-Methylphenol	ND	NA	NA	NA	NA	NA	NA	1
2-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NVG
4-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Pentachlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Phenol	ND	NA	NA	NA	NA	NA	NA	1
2,3,4,6-Tetrachlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4,5-Trichlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
2,4,6-Trichlorophenol	ND	NA	NA	NA	NA	NA	NA	NVG
Acenaphthene	ND	NA	NA	NA	NA	NA	NA	20
Acenaphthylene	ND	NA	NA	NA	NA	NA	NA	NVG
Acetophenone	ND	NA	NA	NA	NA	NA	NA	NVG
Anthracene	ND	NA	NA	NA	NA	NA	NA	50
Atrazine	ND	NA	NA	NA	NA	NA	NA	7.5
Benzaldehyde	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(a)anthracene	ND	NA	NA	NA	NA	NA	NA	0.002
Benzo(a)pyrene	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(b)fluoranthene	ND	NA	NA	NA	NA	NA	NA	0.002
Benzo(g,h,i)perylene	ND	NA	NA	NA	NA	NA	NA	NVG
Benzo(k)fluoranthene	ND	NA	NA	NA	NA	NA	NA	0.002
1,1'-Biphenyl	ND	NA	NA	NA	NA	NA	NA	NVG
4-Bromophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	50
Butyl benzyl phthalate	ND	NA	NA	NA	NA	NA	NA	5
Caprolactam	ND	NA	NA	NA	NA	NA	NA	10
2-Chloronaphthalene	ND	NA	NA	NA	NA	NA	NA	5
4-Chloroaniline	ND	NA	NA	NA	NA	NA	NA	NVG
Carbazole	ND	NA	NA	NA	NA	NA	NA	NVG
Chrysene	ND	NA	NA	NA	NA	NA	NA	0.002
bis(2-Chloroethoxy)methane	ND	NA	NA	NA	NA	NA	NA	5
bis(2-Chloroethyl)ether	ND	NA	NA	NA	NA	NA	NA	1
bis(2-Chloroisopropyl)ether	ND	NA	NA	NA	NA	NA	NA	NVG
4-Chlorophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NVG
2,4-Dinitrotoluene	ND	NA	NA	NA	NA	NA	NA	5
2,6-Dinitrotoluene	ND	NA	NA	NA	NA	NA	NA	5
3,3'-Dichlorobenzidine	ND	NA	NA	NA	NA	NA	NA	5
Dibenzo(a,h)anthracene	ND	NA	NA	NA	NA	NA	NA	NVG
Dibenzofuran	ND	NA	NA	NA	NA	NA	NA	NVG
Di-n-butyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Di-n-octyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Diethyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
Dimethyl phthalate	ND	NA	NA	NA	NA	NA	NA	50
bis(2-Ethylhexyl)phthalate	ND	NA	NA	NA	NA	NA	NA	5
Fluoranthene	ND	NA	NA	NA	NA	NA	NA	50
Fluorene	ND	NA	NA	NA	NA	NA	NA	50
Hexachlorobenzene	ND	NA	NA	NA	NA	NA	NA	0.04
Hexachlorobutadiene	ND	NA	NA	NA	NA	NA	NA	0.5
Hexachlorocyclopentadiene	ND	NA	NA	NA	NA	NA	NA	5
Hexachloroethane	ND	NA	NA	NA	NA	NA	NA	5
Indeno(1,2,3-cd)pyrene	ND	NA	NA	NA	NA	NA	NA	0.002
Isophorone	ND	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	ND	NA	NA	NA	NA	NA	NA	NVG
2-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
3-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
4-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	5
Naphthalene	ND	NA	NA	NA	NA	NA	NA	10
Nitrobenzene	ND	NA	NA	NA	NA	NA	NA	0.4
N-Nitroso-di-n-propylamine	ND	NA	NA	NA	NA	NA	NA	NVG
N-Nitrosodiphenylamine	ND	NA	NA	NA	NA	NA	NA	50
Phenanthrene	ND	NA	NA	NA	NA	NA	NA	50
Pyrene	ND	NA	NA	NA	NA	NA	NA	50
1,2,4,5-Tetrachlorobenzene	ND	NA	NA	NA	NA	NA	NA	NVG
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given								
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 NA=Not Analyzed								

TABLE 24 Summary of Semi-Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	DGB-3 (35 feet)	DGB-3 (45 feet)	DGB-3 (55 feet)	DGB-4 (35 feet)	DGB-4 (45 feet)	DGB-4 (55 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/8/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/9/2013	
Semi-Volatile Organic Compounds							
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	ND R	NA	NA	NA	NA	NA	NVG
4-Chloro-3-methyl phenol	ND R	NA	NA	NA	NA	NA	NVG
2,4-Dichlorophenol	ND R	NA	NA	NA	NA	NA	5
2,4-Dimethylphenol	ND R	NA	NA	NA	NA	NA	50
2,4-Dinitrophenol	ND R	NA	NA	NA	NA	NA	10
4,6-Dinitro-o-cresol	ND R	NA	NA	NA	NA	NA	NVG
2-Methylphenol	ND R	NA	NA	NA	NA	NA	1
3,4-Methylphenol	ND R	NA	NA	NA	NA	NA	1
2-Nitrophenol	ND R	NA	NA	NA	NA	NA	NVG
4-Nitrophenol	ND R	NA	NA	NA	NA	NA	NVG
Pentachlorophenol	ND R	NA	NA	NA	NA	NA	NVG
Phenol	ND R	NA	NA	NA	NA	NA	1
2,3,4,6-Tetrachlorophenol	ND R	NA	NA	NA	NA	NA	NVG
2,4,5-Trichlorophenol	ND R	NA	NA	NA	NA	NA	NVG
2,4,6-Trichlorophenol	ND R	NA	NA	NA	NA	NA	NVG
Acenaphthene	ND	NA	NA	NA	NA	NA	20
Acenaphthylene	ND	NA	NA	NA	NA	NA	NVG
Acetophenone	ND	NA	NA	NA	NA	NA	NVG
Anthracene	ND	NA	NA	NA	NA	NA	50
Atrazine	ND	NA	NA	NA	NA	NA	7.5
Benzaldehyde	ND	NA	NA	NA	NA	NA	NVG
Benzo(a)anthracene	ND	NA	NA	NA	NA	NA	0.002
Benzo(a)pyrene	ND	NA	NA	NA	NA	NA	NVG
Benzo(b)fluoranthene	ND	NA	NA	NA	NA	NA	0.002
Benzo(g,h,i)perylene	ND	NA	NA	NA	NA	NA	NVG
Benzo(k)fluoranthene	ND	NA	NA	NA	NA	NA	0.002
1,1'-Biphenyl	ND	NA	NA	NA	NA	NA	NVG
4-Bromophenyl phenyl ether	ND	NA	NA	NA	NA	NA	50
Butyl benzyl phthalate	ND	NA	NA	NA	NA	NA	5
Caprolactam	ND	NA	NA	NA	NA	NA	10
2-Chloronaphthalene	ND	NA	NA	NA	NA	NA	5
4-Chloroaniline	ND	NA	NA	NA	NA	NA	NVG
Carbazole	ND	NA	NA	NA	NA	NA	NVG
Chrysene	ND	NA	NA	NA	NA	NA	0.002
bis(2-Chloroethoxy)methane	ND	NA	NA	NA	NA	NA	5
bis(2-Chloroethyl)ether	ND	NA	NA	NA	NA	NA	1
bis(2-Chloroisopropyl)ether	ND	NA	NA	NA	NA	NA	NVG
4-Chlorophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NVG
2,4-Dinitrotoluene	ND	NA	NA	NA	NA	NA	5
2,6-Dinitrotoluene	ND	NA	NA	NA	NA	NA	5
3,3'-Dichlorobenzidine	ND	NA	NA	NA	NA	NA	5
Dibenzo(a,h)anthracene	ND	NA	NA	NA	NA	NA	NVG
Dibenzofuran	ND	NA	NA	NA	NA	NA	NVG
Di-n-butyl phthalate	ND	NA	NA	NA	NA	NA	50
Di-n-octyl phthalate	ND	NA	NA	NA	NA	NA	50
Diethyl phthalate	ND	NA	NA	NA	NA	NA	50
Dimethyl phthalate	ND	NA	NA	NA	NA	NA	50
bis(2-Ethylhexyl)phthalate	ND	NA	NA	NA	NA	NA	5
Fluoranthene	ND	NA	NA	NA	NA	NA	50
Fluorene	ND	NA	NA	NA	NA	NA	50
Hexachlorobenzene	ND	NA	NA	NA	NA	NA	0.04
Hexachlorobutadiene	ND	NA	NA	NA	NA	NA	0.5
Hexachlorocyclopentadiene	ND	NA	NA	NA	NA	NA	5
Hexachloroethane	ND	NA	NA	NA	NA	NA	5
Indeno(1,2,3-cd)pyrene	ND	NA	NA	NA	NA	NA	0.002
Isophorone	ND	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	ND	NA	NA	NA	NA	NA	NVG
2-Nitroaniline	ND	NA	NA	NA	NA	NA	5
3-Nitroaniline	ND	NA	NA	NA	NA	NA	5
4-Nitroaniline	ND	NA	NA	NA	NA	NA	5
Naphthalene	ND	NA	NA	NA	NA	NA	10
Nitrobenzene	ND	NA	NA	NA	NA	NA	0.4
N-Nitroso-di-n-propylamine	ND	NA	NA	NA	NA	NA	NVG
N-Nitrosodiphenylamine	ND	NA	NA	NA	NA	NA	50
Phenanthrene	ND	NA	NA	NA	NA	NA	50
Pyrene	ND	NA	NA	NA	NA	NA	50
1,2,4,5-Tetrachlorobenzene	ND	NA	NA	NA	NA	NA	NVG
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. NA=Not Analyzed Bold and boxed indicates compound exceeds TOGS Standards. J= Analyte detected below quantitation limits. *NYSDEC Technical and Operational Guidance ND= Indicates the compound was analyzed for but not detected. Series (1.1.1) Ambient Water Quality Standards NVG - No Value Given and Guidance Values, June 1998 R= The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.							

TABLE 24 Summary of Semi- Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-5 (30 feet)	DGB-5 (40 feet)	DGB-5 (50 feet)	DGB-5 (60 feet)	DGB-5 (70 feet)	DGB-5 (80 feet)	DGB-5 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	
Semi-Volatile Organic Compounds								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NVG
4-Chloro-3-methyl phenol	NA	NA	NA	NA	NA	NA	NA	NVG
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	5
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	50
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	10
4,6-Dinitro-o-cresol	NA	NA	NA	NA	NA	NA	NA	NVG
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	1
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	1
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NVG
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NVG
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NVG
Phenol	NA	NA	NA	NA	NA	NA	NA	1
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	NA	NA	NVG
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NVG
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NVG
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	20
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NVG
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NVG
Anthracene	NA	NA	NA	NA	NA	NA	NA	50
Atrazine	NA	NA	NA	NA	NA	NA	NA	7.5
Benzaldehyde	NA	NA	NA	NA	NA	NA	NA	NVG
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	0.002
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NVG
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	0.002
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NVG
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	0.002
1,1'-Biphenyl	NA	NA	NA	NA	NA	NA	NA	NVG
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	50
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	5
Caprolactam	NA	NA	NA	NA	NA	NA	NA	10
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	5
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NVG
Carbazole	NA	NA	NA	NA	NA	NA	NA	NVG
Chrysene	NA	NA	NA	NA	NA	NA	NA	0.002
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	5
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	1
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NVG
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NVG
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	5
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	5
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	5
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NVG
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NVG
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	50
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	50
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	50
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	50
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	5
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	50
Fluorene	NA	NA	NA	NA	NA	NA	NA	50
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	0.04
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	0.5
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	5
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	5
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	0.002
Isophorone	NA	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NVG
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	5
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	5
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	5
Naphthalene	NA	NA	NA	NA	NA	NA	NA	10
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	0.4
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NVG
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	50
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	50
Pyrene	NA	NA	NA	NA	NA	NA	NA	50
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NVG
Notes: All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given								
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 NA=Not Analyzed								

TABLE 24 Summary of Semi-Volatile Organic Compounds in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	SGB-1 (30feet)	SGB-2 (30 feet)	DGB-X	DGB-XX	Field Blank	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	TOGS*
Date Sampled	10/8/2013	10/9/2013	10/7/2013	10/9/2013	10/8/2013	10/9/2013	
Semi-Volatile Organic Compounds							
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
2-Chlorophenol	ND	ND	ND	NA	ND	ND	NVG
4-Chloro-3-methyl phenol	ND	ND	ND	NA	ND	ND	NVG
2,4-Dichlorophenol	ND	ND	ND	NA	ND	ND	5
2,4-Dimethylphenol	ND	ND	ND	NA	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	NA	ND	ND	10
4,6-Dinitro-o-cresol	ND	ND	ND	NA	ND	ND	NVG
2-Methylphenol	ND	ND	ND	NA	ND	ND	1
3,4,4-Methylphenol	ND	ND	ND	NA	ND	ND	1
2-Nitrophenol	ND	ND	ND	NA	ND	ND	NVG
4-Nitrophenol	ND	ND	ND	NA	ND	ND	NVG
Pentachlorophenol	ND	ND	ND	NA	ND	ND	NVG
Phenol	ND	ND	ND	NA	ND	ND	1
2,3,4,6-Tetrachlorophenol	ND	ND	ND	NA	ND	ND	NVG
2,4,5-Trichlorophenol	ND	ND	ND	NA	ND	ND	NVG
2,4,6-Trichlorophenol	ND	ND	ND	NA	ND	ND	NVG
Acenaphthene	ND	ND	ND	NA	ND	ND	20
Acenaphthylene	ND	ND	ND	NA	ND	ND	NVG
Acetophenone	ND	ND	ND	NA	ND	ND	NVG
Anthracene	ND	ND	ND	NA	ND	ND	50
Atrazine	ND	ND	ND	NA	ND	ND	7.5
Benzaldehyde	ND	ND	ND	NA	ND	ND	NVG
Benzo(a)anthracene	ND	ND	ND	NA	ND	ND	0.002
Benzo(a)pyrene	ND	ND	ND	NA	ND	ND	NVG
Benzo(b)fluoranthene	ND	ND	ND	NA	ND	ND	0.002
Benzo(g,h,i)perylene	ND	ND	ND	NA	ND	ND	NVG
Benzo(k)fluoranthene	ND	ND	ND	NA	ND	ND	0.002
1,1'-Biphenyl	ND	ND	ND	NA	ND	ND	NVG
4-Bromophenyl phenyl ether	ND	ND	ND	NA	ND	ND	50
Butyl benzyl phthalate	ND	ND	ND	NA	ND	ND	5
Caprolactam	ND	ND	ND	NA	ND	ND	10
2-Chloronaphthalene	ND	ND	ND	NA	ND	ND	5
4-Chloroaniline	ND	ND	ND	NA	ND	ND	NVG
Carbazole	ND	ND	ND	NA	ND	ND	NVG
Chrysene	ND	ND	ND	NA	ND	ND	0.002
bis(2-Chloroethoxy)methane	ND	ND	ND	NA	ND	ND	5
bis(2-Chloroethyl)ether	ND	ND	ND	NA	ND	ND	1
bis(2-Chloroisopropyl)ether	ND	ND	ND	NA	ND	ND	NVG
4-Chlorophenyl phenyl ether	ND	ND	ND	NA	ND	ND	NVG
2,4-Dinitrotoluene	ND	ND	ND	NA	ND	ND	5
2,6-Dinitrotoluene	ND	ND	ND	NA	ND	ND	5
3,3'-Dichlorobenzidine	ND	ND	ND	NA	ND	ND	5
Dibenzo(a,h)anthracene	ND	ND	ND	NA	ND	ND	NVG
Dibenzofuran	ND	ND	ND	NA	ND	ND	NVG
Di-n-butyl phthalate	ND	ND	ND	NA	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	NA	ND	ND	50
Diethyl phthalate	ND	ND	ND	NA	ND	ND	50
Dimethyl phthalate	ND	ND	ND	NA	ND	ND	50
bis(2-Ethylhexyl)phthalate	ND	ND	ND	NA	ND	ND	5
Fluoranthene	ND	ND	ND	NA	ND	ND	50
Fluorene	ND	ND	ND	NA	ND	ND	50
Hexachlorobenzene	ND	ND	ND	NA	ND	ND	0.04
Hexachlorobutadiene	ND	ND	ND	NA	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND	ND	NA	ND	ND	5
Hexachloroethane	ND	ND	ND	NA	ND	ND	5
Indeno(1,2,3-cd)pyrene	ND	ND	ND	NA	ND	ND	0.002
Isophorone	ND	ND	ND	NA	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	NA	ND	ND	NVG
2-Nitroaniline	ND	ND	ND	NA	ND	ND	5
3-Nitroaniline	ND	ND	ND	NA	ND	ND	5
4-Nitroaniline	ND	ND	ND	NA	ND	ND	5
Naphthalene	0.57 J	ND	ND	NA	ND	ND	10
Nitrobenzene	ND	ND	ND	NA	ND	ND	0.4
N-Nitroso-di-n-propylamine	ND	ND	ND	NA	ND	ND	NVG
N-Nitrosodiphenylamine	ND	ND	ND	NA	ND	ND	50
Phenanthrene	ND	ND	ND	NA	ND	ND	50
Pyrene	ND	ND	ND	NA	ND	ND	50
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	NA	ND	ND	NVG
Notes: All concentrations are reported in micrograms per liter (µg/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given							
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 DGB-X is a duplicate of DGB-2 (30 feet) DGB-XX is a duplicate of DGB-4 (35 feet) NA=Not Analyzed							

TABLE 25
Summary of Pesticides and PCBs in Deep Groundwater Samples
Former Zoe Chemical
1801 Falmouth Street
New Hyde Park, NY

Sample ID Matrix Date Sampled	DGB-1 (30 feet) Groundwater 10/6/2013	DGB-1 (40 feet) Groundwater 10/6/2013	DGB-1 (50 feet) Groundwater 10/6/2013	DGB-1 (60 feet) Groundwater 10/6/2013	DGB-1 (70 feet) Groundwater 10/6/2013	DGB-1 (80 feet) Groundwater 10/6/2013	DGB-1 (85 feet) Groundwater 10/6/2013	NYSDEC TOGS*
Pesticides	Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	ND	NA	NA	NA	NA	NA	NA	0.002
alpha-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
beta-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
delta-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
gamma-BHC (Lindane)	ND	NA	NA	NA	NA	NA	NA	NVG
alpha-Chlordane	ND	NA	NA	NA	NA	NA	NA	0.05
gamma-Chlordane	ND	NA	NA	NA	NA	NA	NA	0.05
Dieldrin	0.22	NA	NA	NA	NA	NA	NA	0.004
4,4'-DDD	ND	NA	NA	NA	NA	NA	NA	0.3
4,4'-DDE	ND	NA	NA	NA	NA	NA	NA	0.2
4,4'-DDT	ND	NA	NA	NA	NA	NA	NA	0.2
Endrin	ND	NA	NA	NA	NA	NA	NA	0.2
Endosulfan sulfate	ND	NA	NA	NA	NA	NA	NA	0.009
Endrin aldehyde	ND	NA	NA	NA	NA	NA	NA	5
Endrin ketone	ND	NA	NA	NA	NA	NA	NA	5
Endosulfan-I	ND	NA	NA	NA	NA	NA	NA	NVG
Endosulfan-II	ND	NA	NA	NA	NA	NA	NA	NVG
Heptachlor	ND	NA	NA	NA	NA	NA	NA	0.04
Heptachlor epoxide	ND	NA	NA	NA	NA	NA	NA	0.03
Methoxychlor	ND	NA	NA	NA	NA	NA	NA	35
Toxaphene	ND	NA	NA	NA	NA	NA	NA	0.06
PCBs	Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1221	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1232	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1242	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1248	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1254	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1260	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1268	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1262	ND	NA	NA	NA	NA	NA	NA	0.09**

Notes:

All concentrations are reported in micrograms per liter (ug/L) or parts per billion.

Bold and boxed indicates compound exceeds TOGS Standards.

J=Analyte detected below quantitation limits.

ND= Indicates the compound was analyzed for but not detected.

NVG - No Value Given

*NYSDEC Technical and Operational Guidance

Series (1.1.1) Ambient Water Quality Standards
and Guidance Values, June 1998

**Applies to the sum of these compounds

NA=Not Analyzed

TABLE 25 Summary of Pesticides and PCBs in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID Matrix Date Sampled	DGB-2 (30 feet) Groundwater 10/7/2013	DGB-2 (40 feet) Groundwater 10/7/2013	DGB-2 (50 feet) Groundwater 10/7/2013	DGB-2 (60 feet) Groundwater 10/7/2013	DGB-2 (70 feet) Groundwater 10/7/2013	DGB-2 (80 feet) Groundwater 10/7/2013	DGB-2 (85 feet) Groundwater 10/7/2013	NYSDEC TOGS*
Pesticides								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	ND	NA	NA	NA	NA	NA	NA	0.002
alpha-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
beta-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
delta-BHC	ND	NA	NA	NA	NA	NA	NA	NVG
gamma-BHC (Lindane)	ND	NA	NA	NA	NA	NA	NA	NVG
alpha-Chlordane	ND	NA	NA	NA	NA	NA	NA	0.05
gamma-Chlordane	ND	NA	NA	NA	NA	NA	NA	0.05
Dieldrin	ND	NA	NA	NA	NA	NA	NA	0.004
4,4'-DDD	ND	NA	NA	NA	NA	NA	NA	0.3
4,4'-DDE	ND	NA	NA	NA	NA	NA	NA	0.2
4,4'-DDT	ND	NA	NA	NA	NA	NA	NA	0.2
Endrin	ND	NA	NA	NA	NA	NA	NA	0.2
Endosulfan sulfate	ND	NA	NA	NA	NA	NA	NA	0.009
Endrin aldehyde	ND	NA	NA	NA	NA	NA	NA	5
Endrin ketone	ND	NA	NA	NA	NA	NA	NA	5
Endosulfan-I	ND	NA	NA	NA	NA	NA	NA	NVG
Endosulfan-II	ND	NA	NA	NA	NA	NA	NA	NVG
Heptachlor	ND	NA	NA	NA	NA	NA	NA	0.04
Heptachlor epoxide	ND	NA	NA	NA	NA	NA	NA	0.03
Methoxychlor	ND	NA	NA	NA	NA	NA	NA	35
Toxaphene	ND	NA	NA	NA	NA	NA	NA	0.06
PCBs								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1221	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1232	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1242	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1248	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1254	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1260	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1268	ND	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1262	ND	NA	NA	NA	NA	NA	NA	0.09**
<i>Notes:</i> All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given								
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 **Applies to the sum of these compounds NA=Not Analyzed				

TABLE 25 Summary of Pesticides and PCBs in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID Matrix Date Sampled	DGB-3 (35 feet) Groundwater 10/8/2013	DGB-3 (45 feet) Groundwater 10/8/2013	DGB-3 (55 feet) Groundwater 10/8/2013	DGB-4 (35 feet) Groundwater 10/9/2013	DGB-4 (45 feet) Groundwater 10/9/2013	DGB-4 (55 feet) Groundwater 10/9/2013	NYSDEC TOGS*
Pesticides							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	ND	NA	NA	NA	NA	NA	0.002
alpha-BHC	ND	NA	NA	NA	NA	NA	NVG
beta-BHC	ND	NA	NA	NA	NA	NA	NVG
delta-BHC	ND	NA	NA	NA	NA	NA	NVG
gamma-BHC (Lindane)	ND	NA	NA	NA	NA	NA	NVG
alpha-Chlordane	ND	NA	NA	NA	NA	NA	0.05
gamma-Chlordane	ND	NA	NA	NA	NA	NA	0.05
Dieldrin	ND	NA	NA	NA	NA	NA	0.004
4,4'-DDD	ND	NA	NA	NA	NA	NA	0.3
4,4'-DDE	ND	NA	NA	NA	NA	NA	0.2
4,4'-DDT	ND	NA	NA	NA	NA	NA	0.2
Endrin	ND	NA	NA	NA	NA	NA	0.2
Endosulfan sulfate	ND	NA	NA	NA	NA	NA	0.009
Endrin aldehyde	ND	NA	NA	NA	NA	NA	5
Endrin ketone	ND	NA	NA	NA	NA	NA	5
Endosulfan-I	ND	NA	NA	NA	NA	NA	NVG
Endosulfan-II	ND	NA	NA	NA	NA	NA	NVG
Heptachlor	ND	NA	NA	NA	NA	NA	0.04
Heptachlor epoxide	ND	NA	NA	NA	NA	NA	0.03
Methoxychlor	ND	NA	NA	NA	NA	NA	35
Toxaphene	ND	NA	NA	NA	NA	NA	0.06
PCBs							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1221	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1232	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1242	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1248	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1254	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1260	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1268	ND	NA	NA	NA	NA	NA	0.09**
Aroclor 1262	ND	NA	NA	NA	NA	NA	0.09**
<i>Notes:</i> All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given *NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 **Applies to the sum of these compounds NA=Not Analyzed							

TABLE 25 Summary of Pesticides and PCBs in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID Matrix Date Sampled	DGB-5 (30 feet) Groundwater 10/10/2013	DGB-5 (40 feet) Groundwater 10/10/2013	DGB-5 (50 feet) Groundwater 10/10/2013	DGB-5 (60 feet) Groundwater 10/10/2013	DGB-5 (70 feet) Groundwater 10/10/2013	DGB-5 (80 feet) Groundwater 10/10/2013	DGB-5 (85 feet) Groundwater 10/10/2013	NYSDEC TOGS*
Pesticides								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	NA	NA	NA	NA	NA	NA	NA	0.002
alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NVG
beta-BHC	NA	NA	NA	NA	NA	NA	NA	NVG
delta-BHC	NA	NA	NA	NA	NA	NA	NA	NVG
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NVG
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	0.05
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	0.05
Dieldrin	NA	NA	NA	NA	NA	NA	NA	0.004
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	0.3
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	0.2
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	0.2
Endrin	NA	NA	NA	NA	NA	NA	NA	0.2
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	NA	0.009
Endrin aldehyde	NA	NA	NA	NA	NA	NA	NA	5
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	5
Endosulfan-I	NA	NA	NA	NA	NA	NA	NA	NVG
Endosulfan-II	NA	NA	NA	NA	NA	NA	NA	NVG
Heptachlor	NA	NA	NA	NA	NA	NA	NA	0.04
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	0.03
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	35
Toxaphene	NA	NA	NA	NA	NA	NA	NA	0.06
PCBs								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1221	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1232	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1242	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1248	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1254	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1260	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1268	NA	NA	NA	NA	NA	NA	NA	0.09**
Aroclor 1262	NA	NA	NA	NA	NA	NA	NA	0.09**
<i>Notes:</i> All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given								
*NYSDEC Technical and Operational Guidance NA=Not Analyzed Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 **Applies to the sum of these compounds								

TABLE 25 Summary of Pesticides and PCBs in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	SGB-1 (30feet)	SGB-2 (30 feet)	DGB-X	DGB-XX	Field Blank	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	TOGS*
Date Sampled	10/8/2013	10/9/2013	10/7/2013	10/9/2013	10/8/2013	10/9/2013	
Pesticides							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aldrin	ND	ND	ND	NA	ND	NA	0.002
alpha-BHC	ND	ND	ND	NA	ND	NA	NVG
beta-BHC	ND	ND	ND	NA	ND	NA	NVG
delta-BHC	ND	ND	ND	NA	ND	NA	NVG
gamma-BHC (Lindane)	ND	ND	ND	NA	ND	NA	NVG
alpha-Chlordane	0.026	0.014 JN	ND	NA	ND	NA	0.05
gamma-Chlordane	ND	0.02	ND	NA	ND	NA	0.05
Dieldrin	0.062	ND	ND	NA	ND	NA	0.004
4,4'-DDD	ND	ND	ND	NA	ND	NA	0.3
4,4'-DDE	ND	ND	ND	NA	ND	NA	0.2
4,4'-DDT	ND	ND	ND	NA	ND	NA	0.2
Endrin	ND	ND	ND	NA	ND	NA	0.2
Endosulfan sulfate	ND	ND	ND	NA	ND	NA	0.009
Endrin aldehyde	ND	ND	ND	NA	ND	NA	5
Endrin ketone	ND	ND	ND	NA	ND	NA	5
Endosulfan-I	ND	ND	ND	NA	ND	NA	NVG
Endosulfan-II	ND	ND	ND	NA	ND	NA	NVG
Heptachlor	ND	ND	ND	NA	ND	NA	0.04
Heptachlor epoxide	ND	ND	ND	NA	ND	NA	0.03
Methoxychlor	ND	ND	ND	NA	ND	NA	35
Toxaphene	ND	ND	ND	NA	ND	NA	0.06
PCBs							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor 1016	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1221	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1232	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1242	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1248	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1254	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1260	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1268	ND	ND	ND	NA	ND	NA	0.09**
Aroclor 1262	ND	ND	ND	NA	ND	NA	0.09**
<i>Notes:</i> All concentrations are reported in micrograms per liter (ug/L) or parts per billion. Bold and boxed indicates compound exceeds TOGS Standards. J=Analyte detected below quantitation limits. ND= Indicates the compound was analyzed for but not detected. NVG - No Value Given JN= The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity. NA=Not Analyzed							
				*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 **Applies to the sum of these compounds DGB-X is a duplicate of DGB-2 (30 feet) DGB-XX is a duplicate of DGB-4 (35 feet)			

TABLE 26 Summary of Metals in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-1 (30 feet)	DGB-1 (40 feet)	DGB-1 (50 feet)	DGB-1 (60 feet)	DGB-1 (70 feet)	DGB-1 (80 feet)	DGB-1 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	
Metals (Total)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	57,400	NA	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	NA	3
Arsenic	51.3	NA	NA	NA	NA	NA	NA	25
Barium	474	NA	NA	NA	NA	NA	NA	1,000
Beryllium	8.6	NA	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	NA	5
Calcium	84,000	NA	NA	NA	NA	NA	NA	NVG
Chromium	766	NA	NA	NA	NA	NA	NA	50
Cobalt	71.7	NA	NA	NA	NA	NA	NA	5
Copper	248	NA	NA	NA	NA	NA	NA	200
Iron	247,000	NA	NA	NA	NA	NA	NA	300
Lead	149	NA	NA	NA	NA	NA	NA	25
Magnesium	18,100	NA	NA	NA	NA	NA	NA	35,000
Manganese	2,560	NA	NA	NA	NA	NA	NA	300
Mercury	1.1 ^a	NA	NA	NA	NA	NA	NA	0.7
Nickel	241	NA	NA	NA	NA	NA	NA	100
Potassium	11,500	NA	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	NA	50
Sodium	42,300	NA	NA	NA	NA	NA	NA	20,000
Thallium	<20 ^c	NA	NA	NA	NA	NA	NA	0.5
Vanadium	214	NA	NA	NA	NA	NA	NA	14
Zinc	250	NA	NA	NA	NA	NA	NA	2,000
Metals (Dissolved)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	<200	NA	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	NA	3
Arsenic	<3.0	NA	NA	NA	NA	NA	NA	25
Barium	<200	NA	NA	NA	NA	NA	NA	1,000
Beryllium	<1.0	NA	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	NA	5
Calcium	83,300	NA	NA	NA	NA	NA	NA	NVG
Chromium	<10	NA	NA	NA	NA	NA	NA	50
Cobalt	<50	NA	NA	NA	NA	NA	NA	5
Copper	<10	NA	NA	NA	NA	NA	NA	200
Iron	12,800	NA	NA	NA	NA	NA	NA	300
Lead	<3.0	NA	NA	NA	NA	NA	NA	25
Magnesium	9,600	NA	NA	NA	NA	NA	NA	35,000
Manganese	855	NA	NA	NA	NA	NA	NA	300
Mercury	<0.20	NA	NA	NA	NA	NA	NA	0.7
Nickel	32	NA	NA	NA	NA	NA	NA	100
Potassium	<10,000	NA	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	NA	50
Sodium	45,400	NA	NA	NA	NA	NA	NA	20,000
Thallium	<10	NA	NA	NA	NA	NA	NA	0.5
Vanadium	<50	NA	NA	NA	NA	NA	NA	14
Zinc	<20	NA	NA	NA	NA	NA	NA	2,000
<i>Notes:</i> <i>All concentrations are reported in milligrams per liter (mg/L) or parts per million.</i> <i>ND= Indicates the compound was analyzed for but not detected.</i> <i>NVG = No Value Given</i> Bold and boxed indicates compound exceeds TOGS Standards. <i>J= Analyte detected below quantitation limits</i> <i>*NYSDEC Technical and Operational Guidance</i> <i>Series (1.1.1) Ambient Water Quality Standards</i> <i>and Guidance Values, June 1998</i> <i>NA=Not Analyzed</i> <i>*NYSDEC Technical and Operational Guidance</i> <i>Series (1.1.1) Ambient Water Quality Standards</i> <i>and Guidance Values, June 1998</i> <i>a= Elevated sample detection limit due to limited volume</i> <i>b= Elevated detection limit due to dilution required for high interfering element.</i>								

TABLE 26 Summary of Metals in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID Matrix Date Sampled	DGB-2 (30 feet) Groundwater 10/7/2013	DGB-2 (40 feet) Groundwater 10/7/2013	DGB-2 (50 feet) Groundwater 10/7/2013	DGB-2 (60 feet) Groundwater 10/7/2013	DGB-2 (70 feet) Groundwater 10/7/2013	DGB-2 (80 feet) Groundwater 10/7/2013	DGB-2 (85 feet) Groundwater 10/7/2013	NYSDEC TOGS*
Metals (Total)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	3,560	NA	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	NA	3
Arsenic	<3.0 UJ	NA	NA	NA	NA	NA	NA	25
Barium	<200	NA	NA	NA	NA	NA	NA	1,000
Beryllium	<1.0	NA	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	NA	5
Calcium	36,400	NA	NA	NA	NA	NA	NA	NVG
Chromium	63.1	NA	NA	NA	NA	NA	NA	50
Cobalt	<50	NA	NA	NA	NA	NA	NA	5
Copper	14.8	NA	NA	NA	NA	NA	NA	200
Iron	12,500 J	NA	NA	NA	NA	NA	NA	300
Lead	7.3	NA	NA	NA	NA	NA	NA	25
Magnesium	<5,000	NA	NA	NA	NA	NA	NA	35,000
Manganese	582	NA	NA	NA	NA	NA	NA	300
Mercury	<0.20	NA	NA	NA	NA	NA	NA	0.7
Nickel	28	NA	NA	NA	NA	NA	NA	100
Potassium	<10,000	NA	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	NA	50
Sodium	81,300	NA	NA	NA	NA	NA	NA	20,000
Thallium	<10	NA	NA	NA	NA	NA	NA	0.5
Vanadium	<50	NA	NA	NA	NA	NA	NA	14
Zinc	<20	NA	NA	NA	NA	NA	NA	2,000
Metals (Dissolved)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	<200	NA	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	NA	3
Arsenic	<3.0	NA	NA	NA	NA	NA	NA	25
Barium	<200	NA	NA	NA	NA	NA	NA	1,000
Beryllium	<1.0	NA	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	NA	5
Calcium	41,600	NA	NA	NA	NA	NA	NA	NVG
Chromium	<10	NA	NA	NA	NA	NA	NA	50
Cobalt	<50	NA	NA	NA	NA	NA	NA	5
Copper	<10	NA	NA	NA	NA	NA	NA	200
Iron	443	NA	NA	NA	NA	NA	NA	300
Lead	<3.0	NA	NA	NA	NA	NA	NA	25
Magnesium	<5,000	NA	NA	NA	NA	NA	NA	35,000
Manganese	185	NA	NA	NA	NA	NA	NA	300
Mercury	<0.20	NA	NA	NA	NA	NA	NA	0.7
Nickel	<10	NA	NA	NA	NA	NA	NA	100
Potassium	<10,000	NA	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	NA	50
Sodium	106,000	NA	NA	NA	NA	NA	NA	20,000
Thallium	<2.0	NA	NA	NA	NA	NA	NA	0.5
Vanadium	<50	NA	NA	NA	NA	NA	NA	14
Zinc	<20	NA	NA	NA	NA	NA	NA	2,000
<i>Notes:</i> All concentrations are reported in milligrams per liter (mg/L) or parts per million. ND= Indicates the compound was analyzed for but not detected. NVG = No Value Given Bold and boxed indicates compound exceeds TOGS Standards. J= Analyte detected below quantitation limits UJ= The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. *NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, June 1998 NA=Not Analyzed								

TABLE 26 Summary of Metals in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	DGB-3 (35 feet)	DGB-3 (45 feet)	DGB-3 (55 feet)	DGB-4 (35 feet)	DGB-4 (45 feet)	DGB-4 (55 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/8/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/9/2013	
Metals (Total)							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	14,600	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	3
Arsenic	7.7	NA	NA	NA	NA	NA	25
Barium	<200	NA	NA	NA	NA	NA	1,000
Beryllium	1.1	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	5
Calcium	40,100	NA	NA	NA	NA	NA	NVG
Chromium	200	NA	NA	NA	NA	NA	50
Cobalt	<50	NA	NA	NA	NA	NA	5
Copper	51.1	NA	NA	NA	NA	NA	200
Iron	49,800	NA	NA	NA	NA	NA	300
Lead	16.9	NA	NA	NA	NA	NA	25
Magnesium	10,800	NA	NA	NA	NA	NA	35,000
Manganese	2,520	NA	NA	NA	NA	NA	300
Mercury	<0.20	NA	NA	NA	NA	NA	0.7
Nickel	84.2	NA	NA	NA	NA	NA	100
Potassium	<10,000	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	50
Sodium	31,300	NA	NA	NA	NA	NA	20,000
Thallium	<10	NA	NA	NA	NA	NA	0.5
Vanadium	<50	NA	NA	NA	NA	NA	14
Zinc	97.1	NA	NA	NA	NA	NA	2,000
Metals (Dissolved)							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	<200	NA	NA	NA	NA	NA	100
Antimony	<6.0	NA	NA	NA	NA	NA	3
Arsenic	<3.0	NA	NA	NA	NA	NA	25
Barium	<200	NA	NA	NA	NA	NA	1,000
Beryllium	<1.0	NA	NA	NA	NA	NA	75
Cadmium	<3.0	NA	NA	NA	NA	NA	5
Calcium	22,800	NA	NA	NA	NA	NA	NVG
Chromium	<10	NA	NA	NA	NA	NA	50
Cobalt	<50	NA	NA	NA	NA	NA	5
Copper	<10	NA	NA	NA	NA	NA	200
Iron	177	NA	NA	NA	NA	NA	300
Lead	<3.0	NA	NA	NA	NA	NA	25
Magnesium	6,890	NA	NA	NA	NA	NA	35,000
Manganese	417	NA	NA	NA	NA	NA	300
Mercury	<0.20	NA	NA	NA	NA	NA	0.7
Nickel	<10	NA	NA	NA	NA	NA	100
Potassium	<10,000	NA	NA	NA	NA	NA	NVG
Selenium	<10	NA	NA	NA	NA	NA	10
Silver	<10	NA	NA	NA	NA	NA	50
Thallium	<10	NA	NA	NA	NA	NA	0.5
Sodium	35,400	NA	NA	NA	NA	NA	20,000
Vanadium	<50	NA	NA	NA	NA	NA	14
Zinc	<20	NA	NA	NA	NA	NA	2,000
<i>Notes:</i> <i>All concentrations are reported in milligrams per liter (mg/L) or parts per million.</i> <i>ND= Indicates the compound was analyzed for but not detected.</i> <i>NVG = No Value Given</i> Bold and boxed indicates compound exceeds TOGS Standards. <i>J= Analyte detected below quantitation limits</i> <i>*NYSDEC Technical and Operational Guidance</i> <i>Series (1.1.1) Ambient Water Quality Standards</i> <i>and Guidance Values, June 1998</i> <i>NA=Not Analyzed</i>							

TABLE 26 Summary of Metals in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY								
Sample ID	DGB-5 (30 feet)	DGB-5 (40 feet)	DGB-5 (50 feet)	DGB-5 (60 feet)	DGB-5 (70 feet)	DGB-5 (80 feet)	DGB-5 (85 feet)	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS*
Date Sampled	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013	
Metals (Total)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	NA	NA	NA	NA	NA	NA	NA	100
Antimony	NA	NA	NA	NA	NA	NA	NA	3
Arsenic	NA	NA	NA	NA	NA	NA	NA	25
Barium	NA	NA	NA	NA	NA	NA	NA	1,000
Beryllium	NA	NA	NA	NA	NA	NA	NA	75
Cadmium	NA	NA	NA	NA	NA	NA	NA	5
Calcium	NA	NA	NA	NA	NA	NA	NA	NVG
Chromium	NA	NA	NA	NA	NA	NA	NA	50
Cobalt	NA	NA	NA	NA	NA	NA	NA	5
Copper	NA	NA	NA	NA	NA	NA	NA	200
Iron	NA	NA	NA	NA	NA	NA	NA	300
Lead	NA	NA	NA	NA	NA	NA	NA	25
Magnesium	NA	NA	NA	NA	NA	NA	NA	35,000
Manganese	NA	NA	NA	NA	NA	NA	NA	300
Mercury	NA	NA	NA	NA	NA	NA	NA	0.7
Nickel	NA	NA	NA	NA	NA	NA	NA	100
Potassium	NA	NA	NA	NA	NA	NA	NA	NVG
Selenium	NA	NA	NA	NA	NA	NA	NA	10
Silver	NA	NA	NA	NA	NA	NA	NA	50
Sodium	NA	NA	NA	NA	NA	NA	NA	20,000
Thallium	NA	NA	NA	NA	NA	NA	NA	0.5
Vanadium	NA	NA	NA	NA	NA	NA	NA	14
Zinc	NA	NA	NA	NA	NA	NA	NA	2,000
Metals (Dissolved)								
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	NA	NA	NA	NA	NA	NA	NA	100
Antimony	NA	NA	NA	NA	NA	NA	NA	3
Arsenic	NA	NA	NA	NA	NA	NA	NA	25
Barium	NA	NA	NA	NA	NA	NA	NA	1,000
Beryllium	NA	NA	NA	NA	NA	NA	NA	75
Cadmium	NA	NA	NA	NA	NA	NA	NA	5
Calcium	NA	NA	NA	NA	NA	NA	NA	NVG
Chromium	NA	NA	NA	NA	NA	NA	NA	50
Cobalt	NA	NA	NA	NA	NA	NA	NA	5
Copper	NA	NA	NA	NA	NA	NA	NA	200
Iron	NA	NA	NA	NA	NA	NA	NA	300
Lead	NA	NA	NA	NA	NA	NA	NA	25
Magnesium	NA	NA	NA	NA	NA	NA	NA	35,000
Manganese	NA	NA	NA	NA	NA	NA	NA	300
Mercury	NA	NA	NA	NA	NA	NA	NA	0.7
Nickel	NA	NA	NA	NA	NA	NA	NA	100
Potassium	NA	NA	NA	NA	NA	NA	NA	NVG
Selenium	NA	NA	NA	NA	NA	NA	NA	10
Silver	NA	NA	NA	NA	NA	NA	NA	50
Sodium	NA	NA	NA	NA	NA	NA	NA	20,000
Thallium	NA	NA	NA	NA	NA	NA	NA	0.5
Vanadium	NA	NA	NA	NA	NA	NA	NA	14
Zinc	NA	NA	NA	NA	NA	NA	NA	2,000
<i>Notes:</i> <i>All concentrations are reported in milligrams per liter (mg/L) or parts per million.</i> <i>ND= Indicates the compound was analyzed for but not detected.</i> <i>NVG = No Value Given</i> Bold and boxed indicates compound exceeds TOGS Standards. <i>J= Analyte detected below quantitation limits</i> <i>*NYSDEC Technical and Operational Guidance</i> <i>Series (1.1.1) Ambient Water Quality Standards</i> <i>and Guidance Values, June 1998</i> <i>NA=Not Analyzed</i>								

TABLE 26 Summary of Metals in Deep Groundwater Samples Former Zoe Chemical 1801 Falmouth Street New Hyde Park, NY							
Sample ID	SGB-1 (30feet)	SGB-2 (30 feet)	DGB-X	DGB-XX	Field Blank	Field Blank	NYSDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	TOGS*
Date Sampled	10/8/2013	10/9/2013	10/7/2013	10/9/2013	10/8/2013	10/9/2013	
Metals (Total)							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	44,900	<200	3,970	NA	<200	NA	100
Antimony	<6.0	<6.0	<6.0	NA	<6.0	NA	3
Arsenic	54.9	<3.0	4.1 J	NA	<3.0	NA	25
Barium	600	<200	<200	NA	<200	NA	1,000
Beryllium	6.5	<1.0	<1.0	NA	<1.0	NA	75
Cadmium	<3.0	<3.0	<3.0	NA	<3.0	NA	5
Calcium	22,700	18,900	38,000	NA	<5,000	NA	NVG
Chromium	361	<10	78.3	NA	<10	NA	50
Cobalt	86.3	<50	<50	NA	<50	NA	5
Copper	148	<10	17	NA	<10	NA	200
Iron	227,000	443	17,000 J	NA	<100	NA	300
Lead	100	<3.0	8.2	NA	<3.0	NA	25
Magnesium	10,800	5,820	<5,000	NA	<5,000	NA	35,000
Manganese	2,430	188	634	NA	<15	NA	300
Mercury	0.61 ^b	<0.20	<0.20	NA	<0.20	NA	0.7
Nickel	168	<10	33.7	NA	<10	NA	100
Potassium	<10,000	<10,000	<10,000	NA	<10,000	NA	NVG
Selenium	<10	<10	<10	NA	<10	NA	10
Silver	<10	<10	<10	NA	<10	NA	50
Sodium	56,200	30,100	83,700	NA	<10,000	NA	20,000
Thallium	<10	<10	<10	NA	<10	NA	0.5
Vanadium	157	<50	<50	NA	<50	NA	14
Zinc	244	<20	<20	NA	<20	NA	2,000
Metals (Dissolved)							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aluminum	<200	<200	<200	NA	<200	NA	100
Antimony	<6.0	<6.0	<6.0	NA	<6.0	NA	3
Arsenic	<3.0	<3.0	<3.0	NA	<3.0	NA	25
Barium	<200	<200	<200	NA	<200	NA	1,000
Beryllium	<1.0	<1.0	<1.0	NA	<1.0	NA	75
Cadmium	<3.0	<3.0	<3.0	NA	<3.0	NA	5
Calcium	18,800	18,800	40,600	NA	<5,000	NA	NVG
Chromium	<10	<10	<10	NA	<10	NA	50
Cobalt	<50	<50	<50	NA	<50	NA	5
Copper	<10	<10	<10	NA	<10	NA	200
Iron	657	261	475	NA	<100	NA	300
Lead	<3.0	<3.0	<3.0	NA	<3.0	NA	25
Magnesium	<5,000	6,020	<5,000	NA	<5000	NA	35,000
Manganese	465	243	196	NA	<15	NA	300
Mercury	<0.20	<0.20	<0.20	NA	<0.20	NA	0.7
Nickel	<10	<10	<10	NA	<10	NA	100
Potassium	<10,000	<10,000	<10,000	NA	<10,000	NA	NVG
Selenium	<10	<10	<10	NA	<10	NA	10
Silver	<10	<10	<10	NA	<10	NA	50
Sodium	61,400	29,800	89,700	NA	<10000	NA	20,000
Thallium	<10	<10	<10	NA	<10	NA	0.5
Vanadium	<50	<50	<50	NA	<50	NA	14
Zinc	<20	<20	<20	NA	<20	NA	2,000
<i>Notes:</i> <i>All concentrations are reported in milligrams per liter (mg/L) or parts per million.</i> <i>ND= Indicates the compound was analyzed for but not detected.</i> <i>NVG = No Value Given</i> Bold and boxed indicates compound exceeds TOGS Standards. <i>J= Analyte detected below quantitation limits</i> <i>*NYSDEC Technical and Operational Guidance</i> <i>Series (1.1.1) Ambient Water Quality Standards</i> <i>and Guidance Values, June 1998</i> <i>b= Elevated sample detection limit due to difficult sample matrix</i> <i>DGB-X is a duplicate of DGB-2 (30 feet)</i> <i>DGB-XX is a duplicate of DGB-4 (35 feet)</i> <i>NA=Not Analyzed</i>							

Table 27
Water Level Elevations
Former Zoe Chemical Site
1801 Fallmouth Road, New Hyde Park NY

Well Number	Depth to Top of Screen (ft)	Depth to Bottom of Screen (ft)	Elevation of Casing	Depth to Water (ft)	Water Table Elevation	Well Diameter
MW-1	30	45	85.49	32.10	53.39	2 inch
MW-2	25	40	82.22	28.90	53.32	2 inch
MW-3	20	35	76.56	23.40	53.16	2 inch
MW-4	10	15	78.95	14.17	64.78	2 inch

Notes: *Depth to water taken October 10, 2013*
 Elevations are from May 14, 2013 survey

Appendix A

Soil Boring Logs

17 Dupont Street, Plainview, NY 11803

TOTAL DEPTH: **20 ft**

Water level in boring	

20

Page 1 of 1

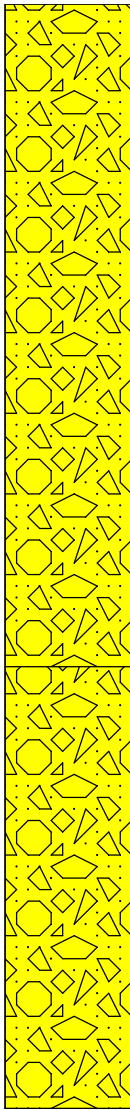
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas and Robert
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	4/22/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of sand, asphalt and concrete.		SB-2(0-2') ms/msd	Push	0.0
5						0.0
10		Moist dark brown clay and silt.				0.0
15		Tan fill composed of medium grain sand and pebbles.				0.0
20		Light brown fill composed of medium grain sand and pebbles.				0.0

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas and Robert
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	4/22/13	HAMMER WT./DROP	NA

Water level in boring

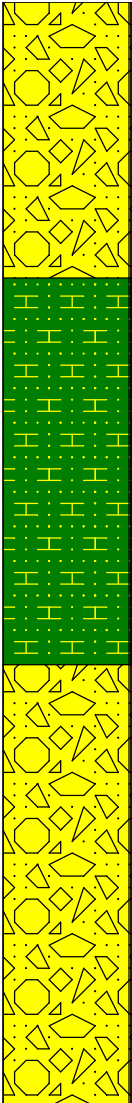
DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm	
0		Tan fill composed of sand and concrete.		SB-3 (0-2')	Push	0.0	
						0.0	
5		Tan fill composed of medium grain sand and pebbles.				0.0	
						0.0	
10						0.0	
						0.0	
15						0.0	
						0.0	
20						0.0	
						0.0	
						0.0	

17 Dupont Street, Plainview, NY 11803

TOTAL DEPTH: **20 ft**

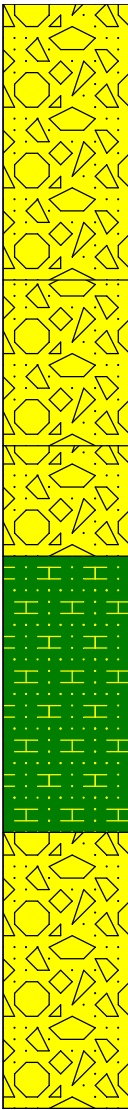
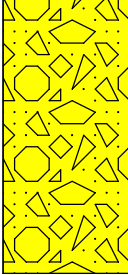
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas and Robert
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	4/22/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of sand, asphalt, and concrete.		SB-5 (0-2')	Push	0.0
5		Dark brown clay and silt.				0.0
10						0.0
15		Tan fill composed of medium grain sand and pebbles.				0.0
						0.0
20						0.0

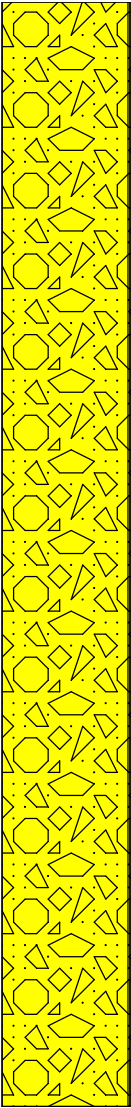
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas and Charles
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	4/25/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of sand and concrete.			Push	0.0
5		Grey medium grain sand and pebbles.				0.0
10		Moist grey medium grain sand and pebbles with a slight odor.			SB-6 (8-9')	0.0
10		Wet grey clay and silt.			SB-6(10-11') SB-X	23
15						0.0
20		Tan fill composed of sand and pebbles.				0.0
25						0.0

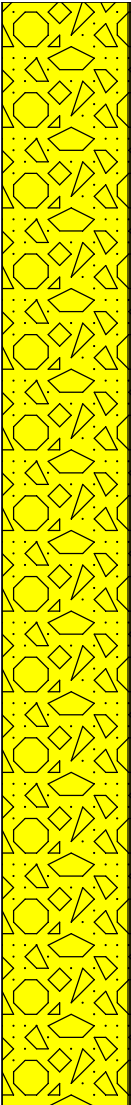
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	9/18/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.		ISB-1 (0-2')	Push	0.0
1						
2						0.0
3						
4						
5						

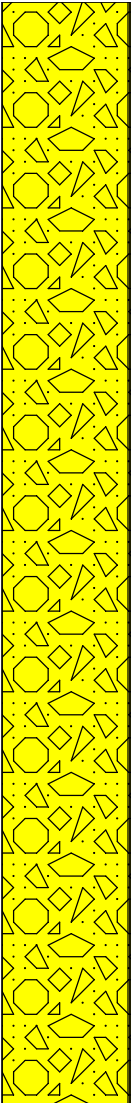
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	9/18/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.		ISB-2 (0-2')	Push	0.0
1						
2						0.0
3						
4						
5						

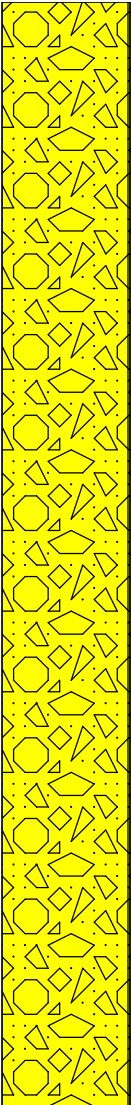
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PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	9/18/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.			Push	0.0
1						
2						
3						
4						
5						

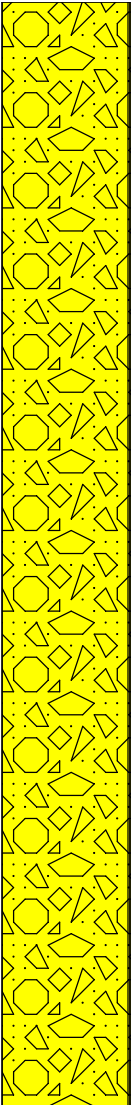
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PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	9/18/13	HAMMER WT./DROP	NA

Water level in boring

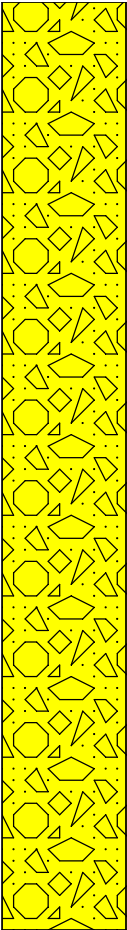
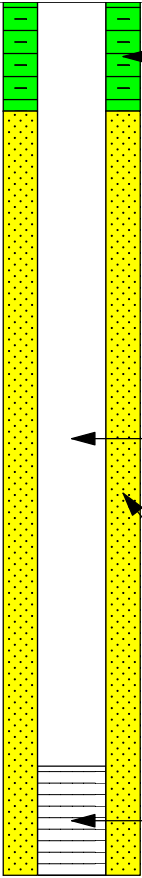
DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.			Push	0.0
1						
2						
3						
4						
5						

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	9/18/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.			Push	0.0
1						
2						
3						
4						
5						

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	None		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

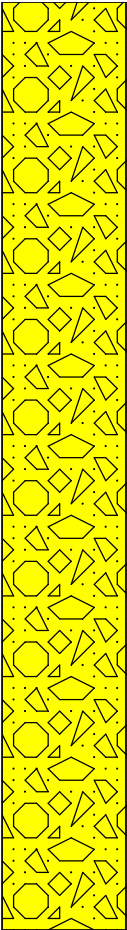
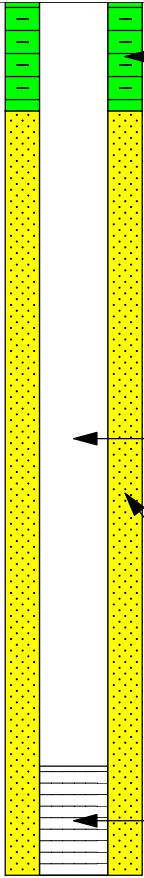
DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Dark brown fill composed of medium grained sand and concrete.					Bentonite seal from 1/2-Inch to grade 1/4-Inch diameter stainless steel pipe No. 2 Sand 1-Inch diameter screen
					0.0		
					0.0		
5			SV-1		0.0		

NOTES:

Page 1 of 1

Stainless steel pipe sticks up approximately 1-foot from the ground surface.

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	None		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Dark brown fill composed of medium grained sand and concrete.					Bentonite seal from 1/2-Inch to grade 1/4-Inch diameter stainless steel pipe No. 2 Sand 1-Inch diameter screen
					0.0		
					0.0		
5			SV-2		0.0		

NOTES:

Page 1 of 1

Stainless steel pipe sticks up approximately 1-foot from the ground surface.

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	None		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Tan fill composed of medium grained sand.			0.0		Bentonite seal from 1/2-Inch to grade
5		Black medium grain sand with an odor.	SSB (5-8 ft) SV-3	366			1/4-Inch diameter stainless steel pipe No. 2 Sand 1-Inch diameter screen

NOTES:

Page 1 of 1

Stainless steel pipe sticks up approximately 1-foot from the ground surface.

17 Dupont Street, Plainview, NY 11803

TOTAL DEPTH: **8 ft**

[illegible]

Stainless steel pipe sticks up approximately 1-foot from the ground surface.

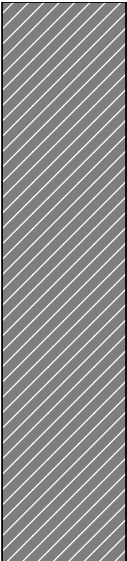
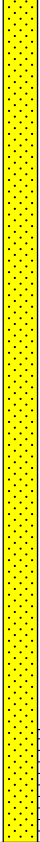
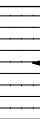
PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	CA Rich Consultants, Inc.		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Jason Cooper		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	NA		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Core drill		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Drill cuttings		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0	Concrete	Concrete			0.0		Beeswax
5							
	Tan fill composed of medium grain sand.		SSV-1		0.0		1/4-Inch diameter stainless steel pipe
							No. 2 Sand
							1-Inch diameter screen

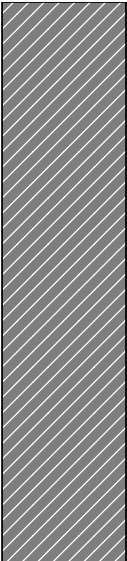
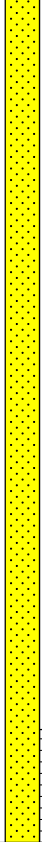
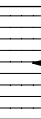
PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	CA Rich Consultants, Inc.		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Jason Cooper		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	NA		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Core drill		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Drill cuttings		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0	Concrete	Concrete			0.0		Beeswax
5							
	Tan fill composed of medium grain sand.		SSV-2		0.0		1/4-Inch diameter stainless steel pipe No. 2 Sand
							1-Inch diameter screen

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	CA Rich Consultants, Inc.		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Jason Cooper		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	NA		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Core drill		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Drill cuttings		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Concrete			0.0		Beeswax
5		Tan fill composed of medium grain sand.	SSV-3		0.0	 	1/4-Inch diameter stainless steel pipe No. 2 Sand
							1-Inch diameter screen

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	CA Rich Consultants, Inc.		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Jason Cooper		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	NA		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Core drill		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Drill cuttings		
DATES DRILLED:	9/18/13			HAMMER WT./DROP	NA		

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Concrete			0.0		Beeswax
5		Tan fill comosed of medium grain sand.	SSV-4		0.0	  	

FIELD BORING LOG

BOREHOLE NO.: **MW-1**

TOTAL DEPTH: **45 ft**

PROJECT INFORMATION

PROJECT: **1801 Falmouth Avenue**
 SITE LOCATION: **New Hyde Park, NY**
 JOB NO.: **Former Zoe Chemical**
 LOGGED BY: **Jessica Proscia**
 PROJECT MANAGER: **Eric Weinstock**
 DATES DRILLED: **4/24/13**

DRILLING INFORMATION

DRILLING CO.: **Zebra Environmental**
 DRILLER: **Lucas**
 RIG TYPE: **Geoprobe**
 METHOD OF DRILLING: **Direct Push/augers**
 SAMPLING METHODS: **Soil Sleeves**
 HAMMER WT./DROP **NA**

Water level in well

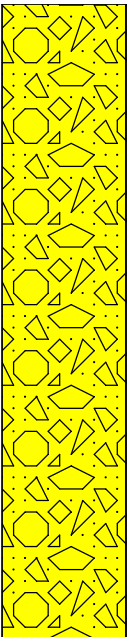
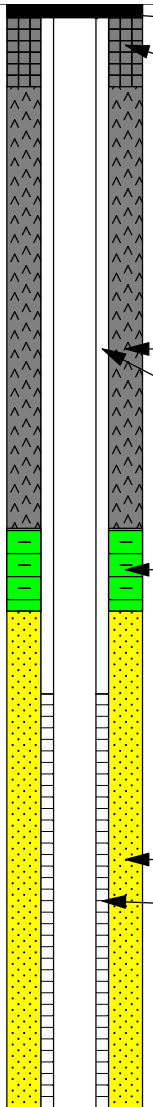
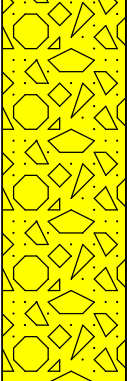
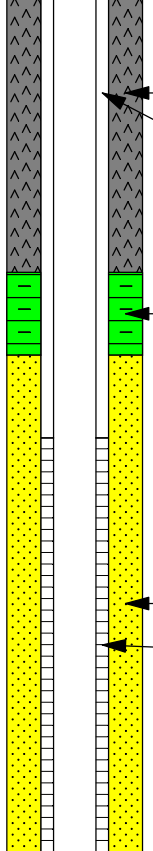
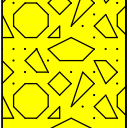
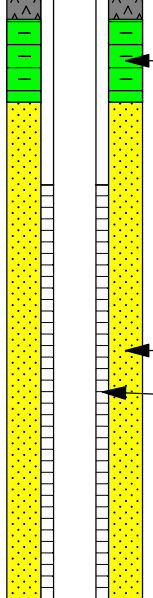
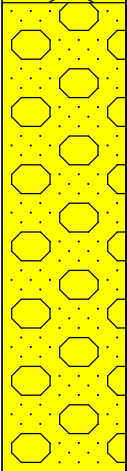
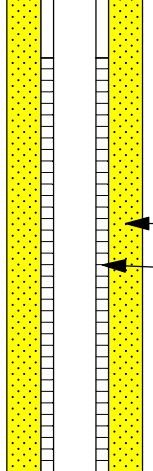
DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Fill: Tan fill composed of sand, concrete, and asphalt.		Push	0.0		Cover
5		Fill: Tan fill composed of medium grain sand and pebbles.			0.0		Surface seal
10		Fill: Dark brown fill composed of medium grain sand and pebbles.			0.0		
15		Fill: Light brown fill composed of medium grain sand and pebbles.			0.0		Grout
20		Sand Pebbles: Tan medium grain sand with some pebbles.			0.0		Sch. 40 PVC Pipe
25		Sand Pebbles: Light brown medium grain sand with some pebbles.			0.0		Bentonite Seal
30					0.0		
35					0.0		
40							No. 2 Sand
45							20 Slot Screen

NOTES: MW-1 is a two-inch diameter monitoring well.

Page 1 of 1

PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push/augers		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Soil Sleeves		
DATES DRILLED:	4/23/13			HAMMER WT./DROP	NA		

Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Fill: Tan fill composed of sand, concrete, and asphalt.		Push	0.0		Cover
5					0.0		Surface seal
10					0.0		Grout
15					0.0		Sch. 40 PVC Pipe
20					0.0		Bentonite Seal
25		Sand Pebbles: Light brown medium grain sand with some pebbles.			0.0		
30					0.0		No. 2 Sand
35					0.0		20 Slot Screen
40							

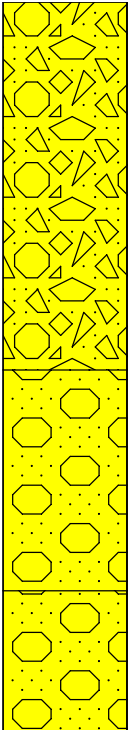
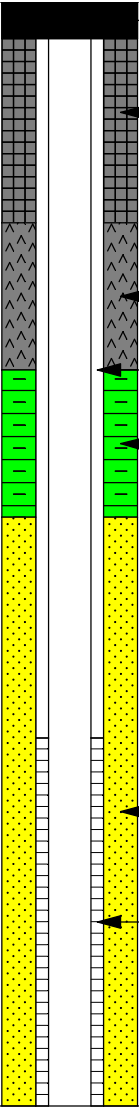
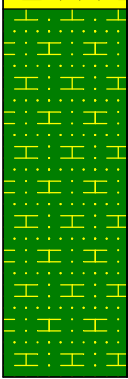
PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push/augers		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Soil Sleeves		
DATES DRILLED:	4/23/13			HAMMER WT./DROP	NA		

Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0							
		Sand and Silt: Dark brown medium grain silty sand with some pebbles.		Push	0.0		Cover
					0.0		Surface seal
5		Sand Pebbles: Tan medium grain sand with some pebbles.			0.0		
10		Sand Pebbles: Light brown medium grain sand with some pebbles.			0.0		Grout
					0.0		Sch. 40 PVC Pipe
15					0.0		Bentonite Seal
20					0.0		
					0.0		
25					0.0		No. 2 Sand
							20 Slot Screen
30							
35							

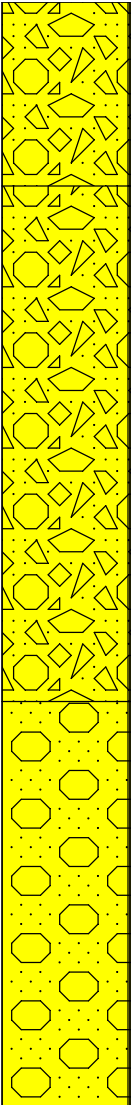
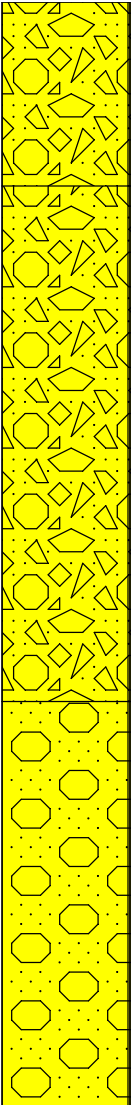
PROJECT INFORMATION				DRILLING INFORMATION			
PROJECT:	1801 Falmouth Avenue			DRILLING CO.:	Zebra Environmental		
SITE LOCATION:	New Hyde Park, NY			DRILLER:	Lucas		
JOB NO.:	Former Zoe Chemical			RIG TYPE:	Geoprobe		
LOGGED BY:	Jessica Proscia			METHOD OF DRILLING:	Direct Push/augers		
PROJECT MANAGER:	Eric Weinstock			SAMPLING METHODS:	Soil Sleeves		
DATES DRILLED:	4/25/13			HAMMER WT./DROP	NA		

Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Fill: Tan fill composed of sand and concrete.		Push		 Cover Surface seal Grout Sch. 40 PVC Pipe Bentonite Seal No. 2 Sand 20 Slot Screen	
5		Sand Pebbles: Grey medium grain sand and pebbles.					
10		Sand Pebbles: Moist grey medium grain sand and pebbles.					
15		Clay and Silt: Wet grey clay and silt.					

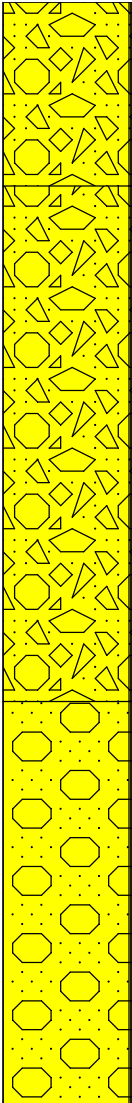
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	10/7/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand with some aphalt.			Push	0.0
5		Tan fill composed of medium grain sand.				0.0
10						0.0 0.0
15						0.0
20		Tan medium grain sand with some pebbles.				0.0
25					Push	0.0
30						0.0
				DGB-2		

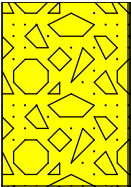
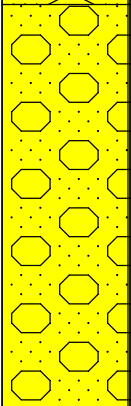
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	10/8/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand with some aphalt.			Push	0.0
5		Tan fill composed of medium grain sand.				0.0
10						0.0 0.0
15						0.0 0.0
20		Tan medium grain sand with some pebbles.				0.0
25						0.0
				DGB-3		
30						

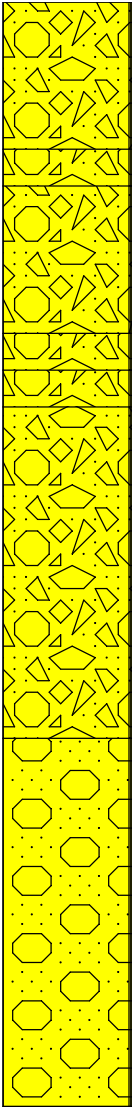
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PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	10/8/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of fine sand.				1.2
5		Tan fill composed of medium grain sand.				2.2
10		Black medium grain sand with an odor.				3.7 300
15		Dark brown fill composed of medium grain sand.				3.9
20		Tan fill composed of medium grain sand.				1.2
25		Tan medium grain sand with some pebbles.			Push	2.3
30						2.1
				SGB-1 (soil)		
				SGB-1		

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	1801 Falmouth Avenue	DRILLING CO.:	Zebra Environmental
SITE LOCATION:	New Hyde Park, NY	DRILLER:	Lucas
JOB NO.:	Former Zoe Chemical	RIG TYPE:	Geoprobe
LOGGED BY:	Jessica Proscia	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Soil Sleeves
DATES DRILLED:	10/9/13	HAMMER WT./DROP	NA

Water level in boring

DEPTH	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Tan fill composed of medium grain sand.				2.1
		Dark brown fill composed of silty wet sand.				0.0
5		Tan fill composed of silty wet sand.				0.0
		Tan fill composed of silty wet sand with some wood.				0.0
10		Tan fill composed of silty wet sand.				0.0
		Tan fill with medium grain sand with some pebbles.				0.0
15					Push	0.0
20		Tan medium grain sand with some pebbles.				0.0
25						0.0
30						
				SGB-2		

APPENDIX B

Waste Disposal Manifest and Discharge Approval Letters

852584-13

1654485

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 61/64 (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N / A		Manifest Document No. 3 8 6 0 0	2. Page 1 of 1
3. Generator's Name and Mailing Address Former Zoe Chemical 1801 Falmouth Road New Hyde Park, NY 11040 4. Generator's Phone (516 576-8844		5. Transporter 1 Company Name Metro Environmental Contracting		6. US EPA ID Number NYR000134957	
7. Transporter 2 Company Name Republic Environmental Systems 2869 Sandstone Drive Hatfield, PA 19440		8. US EPA ID Number PAD082601281		9. US EPA ID Number PAD085690592	
10. Designated Facility Name and Site Address Republic Environmental Systems 2869 Sandstone Drive Hatfield, PA 19440		11. State Transporter's ID (631)884-1880		12. State Transporter's ID (215)822-8995	
13. WASTE DESCRIPTION		14. Containers		15. Total Quantity	
a. Drill Cuttings Non-DOT Regulated Material		No. Type		Unit Vol.	
		2 DM		1240 P	
b.					
c.					
d.					
e.					
16. Special Handling Instructions and Additional Information 11a) 577947 Doc# 852584-13		17. Handling Codes for Wastes Listed Above			
18. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name John Dull ON BEHALF OF		Signature John Dull		Date 5/28/13	
19. Transporter 1 Acknowledgement of Receipt of Materials		Signature James Ulrich		Date 5/28/13	
20. Transporter 2 Acknowledgement of Receipt of Materials		Signature Charles Cummins		Date 5/28/13	
21. Discrepancy Indication Space					
22. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 18.					
Printed/Typed Name MALVEY/ACTED		Signature MALVEY/ACTED		Date 6/10/13	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 Prospect Avenue
Westbury, New York 11590-2723

August 28, 2013

Ms. Jessica Proscia
C. A. Rich Environmental Specialists
17 Dupont Street
Plainview, New York 11803

Re: Disposal of Monitoring Drywell Wastewater
Former Zoe Chemical Site
1801 Falmouth Road, New Hyde Park, New York

Dear Ms. Proscia:

This letter is in response to your request dated August 21, 2013, requesting approval to dispose of two (2) 55-gallon drums of storm drain wastewater into the County's sanitary sewer system located at the above referenced site.

The request is hereby approved. The approval is based on the laboratory analysis of the drummed wastewater and the non-hazardous nature of the wastes.

This Department reserves the right to cancel this temporary approval at any time.

If you have any questions concerning the above matter, please call me at (516) 571-7353.

Very truly yours,

A handwritten signature in black ink, appearing to read "Peter J. Witkowski".

Peter J. Witkowski
Director of Hazardous Waste Services

PJW

c. Joseph L. Davenport, Chief Sanitary Engineer, Unit Head Water/Wastewater Engineering



COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 Prospect Avenue
Westbury, New York 11590-2723

May 23, 2013

Ms. Jessica Proscia
C. A. Rich Environmental Specialists
17 Dupont Street
Plainview, New York 11803

Re: Disposal of Monitoring Well Purge Water
Former Zoe Chemical Site
1801 Palmouth Road, New Hyde Park, New York

Dear Ms. Proscia:

This letter is in response to your request dated May 23, 2013, requesting approval to dispose of two (2) 55-gallon drums of monitoring well purge water into the County's sanitary sewer system located at the above referenced site.

The request is hereby approved. The approval is based on the laboratory analysis of the drummed purge water and the non-hazardous nature of the wastes.

This Department reserves the right to cancel this temporary approval at any time. In accordance with requirements of this Department, a disposal fee of \$100.00 shall be accessed. By copy of this letter, the Department's Division of Administration will invoice your firm for the disposal fee.

If you have any questions concerning the above matter, please call me at (516) 571-7353.

Very truly yours,

A handwritten signature in black ink, appearing to read "Peter J. Witkowski".

Peter J. Witkowski
Director of Hazardous Waste Services

PJW

- c. Joseph L. Davenport, Chief Sanitary Engineer, Unit Head Water/Wastewater Engineering
James J. Sallie, Division of Administration

APPENDIX C

NYSDOH Indoor Air Quality Questionnaire

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jessica Proscia Date/Time Prepared 6/16/14
Preparer's Affiliation Environmental Consultant Phone No. 516-576-8844
Purpose of Investigation _____

1. OCCUPANT:**Interviewed:** Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☒)**Interviewed:** Y / NLast Name: Gordon First Name: LaurenceAddress: One Jericho Turnpike, New Hyde ParkCounty: NassauHome Phone: _____ Office Phone: (516) 354-4300**3. BUILDING CHARACTERISTICS****Type of Building:** (Circle appropriate response)Residential
IndustrialSchool
ChurchCommercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Lumber Yard

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 1962

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other None
- c. Basement floor: concrete dirt stone other None
- d. Basement floor: uncovered covered covered with None
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy None
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: at grade (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	Other <u>overhead forced air blowers</u>
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

No basement

1st Floor

Lumber yard Storage and Showroom.

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / N

b. Does the garage have a separate heating unit?

Y / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / N / NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? _____

e. Is a kerosene or unvented gas space heater present?

Y / N Where? _____

f. Is there a workshop or hobby/craft area?

Y / N Where & Type? _____

g. Is there smoking in the building?

Y / N How frequently? _____

h. Have cleaning products been used recently?

Y / N When & Type? _____

i. Have cosmetic products been used recently?

Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building? Y / N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

No
Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

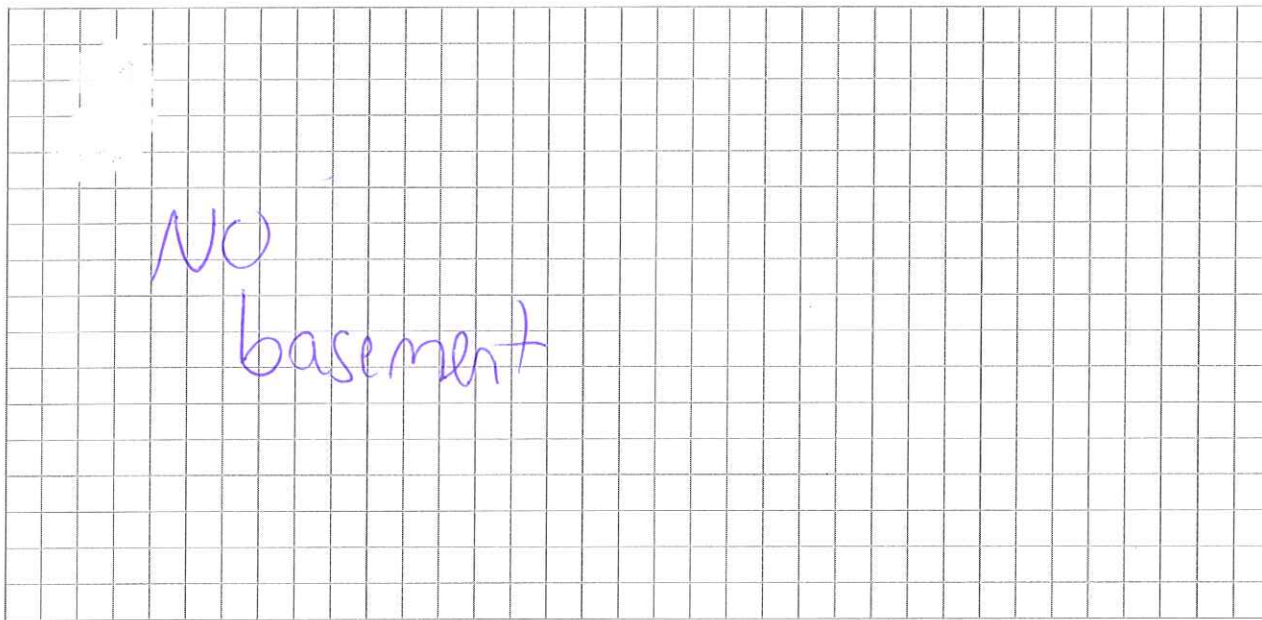
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



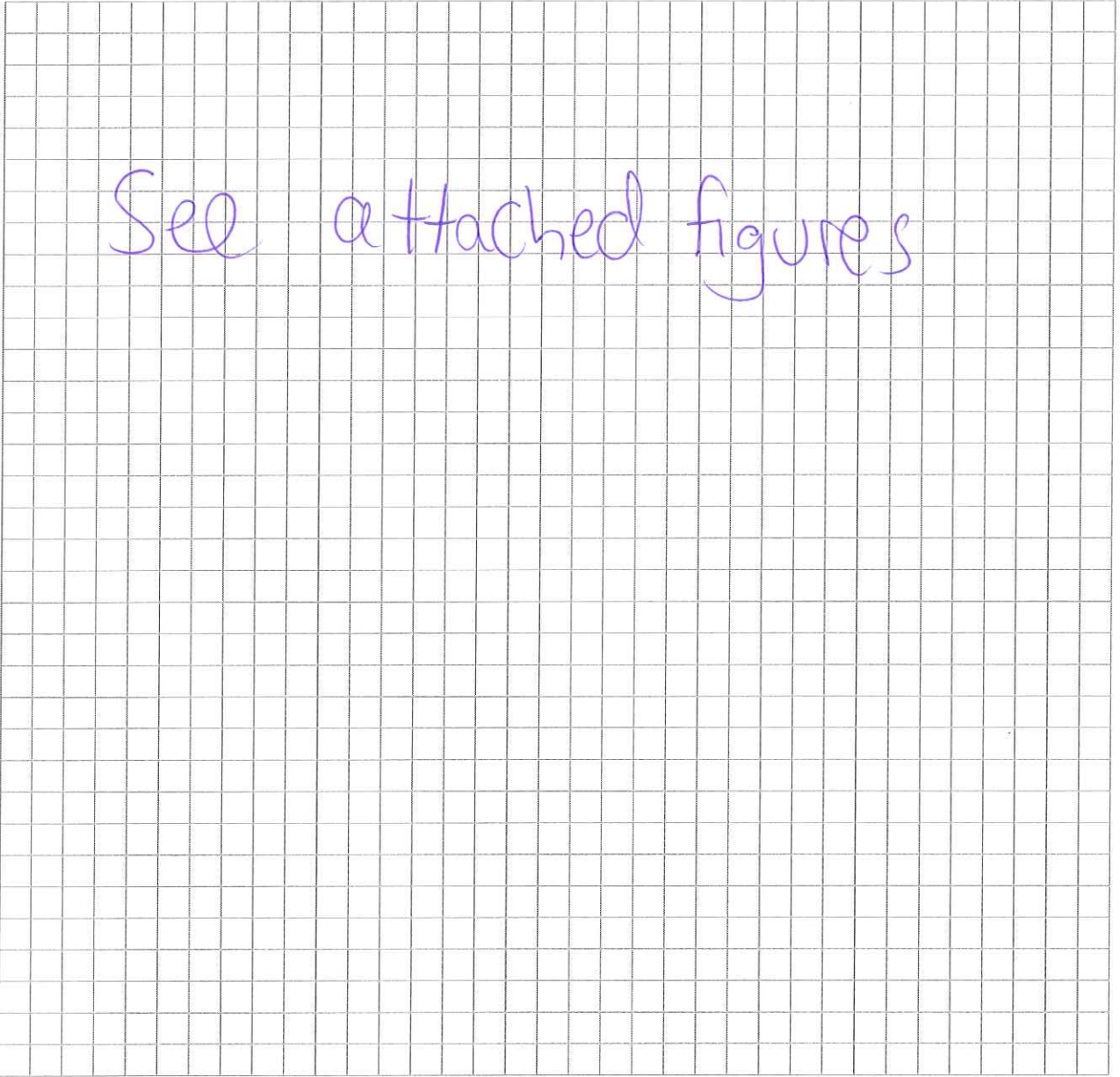
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



See attached figures

APPENDIX D

Water Quality Measurement Logs



Water Quality Measurement Log

MW-1

Location: (Site/Facility Name) Forme-Zoe Chemical
Date: 5/14/2013
Sampling Personnel: Jessica Pascale / Jason Cooper
Weather: Sunny 40°/65°
Identify Measuring Point (MP): MW-1 North side of AC
Well ID: MW-1
Static Depth to Water (Prior to installing pump) 31.27

Depth to: 30" of screen
(Below MP) Top Bottom
Pump Intake at (ft. below MP) 35
Well Diameter: 2"
Purging Device: (Pump type) Mini-Monsoon
Purge Start Time: 0903
Sample Start Time: 0950
Purge End Time: 0948
Sample End Time: 1043

Clock Time	Water Depth Below MP	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged Liters	Temp. °C	Spec. Conduct. ² uS/cm	pH	ORP/Eh ³ mv	DO mg/L	Turbidity NTU	Comments
24 HR	FT										
Tolerance	0.33 ft				3%	3%	± 0.1	± 10	± 0.3	10%	
0912	31.37	9.8	400		15.68	1.76	6.01	267	8.54	7.4	
0930	31.33	9.8	300		15.64	1.76	6.01	267	8.54	7.4	
0935	31.34	9.8	300		15.64	1.76	6.01	267	8.54	7.4	
0935	31.39	9.8	250		15.78	1.77	6.03	265	8.27	2.5	
0940	31.36	9.8	250		15.73	1.77	6.03	267	8.27	2.5	
0945	31.39	9.8	250		15.72	1.77	6.03	267	8.27	2.5	

1. Pump dial setting (Example: hertz, cycles/minute, etc)
2. uS/cm per cm (same as uS/cm) at 25°C
3. Oxidation reduction potential (stand in for Eh)

Horiba Calibration #15

Cal. Solution #15

M5 & M5B collected @ MW-1

pH - 3.88
Spec Cond - 3.34 mS/cm
NH₄ - 0.0
NO₃ - 10.61



Water Quality Measurement Log

34.7' of screen

MU-2

Location: (Site/Facility Name) Former Eze Chemical

Date: 5/14/2013

Sampling Personnel: SP JC

Weather: Sunny 40°/60°

Identify Measuring Point (MP): North AK

Well ID: MU-2

Static Depth to Water (Prior to installing pump) 28.0'

Depth to: 25' Top 30' Bottom
(Below MP) Pump Intake at (ft. below MP) 32'
Well Diameter: 8"
Purging Device: (Pump type) M111 M1156A
Purge Start Time: 11:24
Sample Start Time: 1311

Purge End Time: 1309
Sample End Time: 1320

Clock Time	Water Depth Below MP	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged Liters	Temp. °C	Spec. Conduct. ² uS/cm	pH	ORP/Eh ³ mv	DO mg/L	Turbidity NTU	Comments
11:30	28.10	9.1	200		16.84	0.968	6.70	250	1.81	97.8	Silty sandy muds
11:50	28.14	9.5	200		15.08	0.969	6.70	235	0.99	88.5	
12:00	28.14	9.5	200		17.16	0.971	6.69	203	0.65	50.8	
12:05	28.11	9.5	200		17.29	0.974	6.70	12	0.65	34.8	
12:10	28.12	9.5	200		17.40	0.974	6.70	201	0.67	24.8	
12:15	28.13	9.5	200		17.53	0.974	6.70	191	0.67	18.5	
12:20	28.12	9.5	200		15.71	0.964	6.70	181	0.59	11.3	
12:25	28.14	9.5	200		15.94	0.968	6.70	173	0.60	16.3	
12:30	28.13	9.5	200		16.25	0.964	6.70	167	0.43	13.3	
12:35	28.13	9.5	200		16.46	0.964	6.71	164	0.30	12.7	
12:50	28.14	9.6	300		18.51	1.03	6.75	195	4.15	80.1	lost flow - battery dead
12:54	28.15	9.6	300		18.35	1.03	6.71	191	1.27	71.9	
12:58	28.16	9.6	300		18.27	1.03	6.71	188	1.19	62.8	
13:03	28.15	9.6	300		18.29	1.03	6.72	186	0.75	16.5	
13:06	28.14	9.6	300		18.31	1.02	6.71	181	0.69	13.1	
13:08	28.14	9.6	300		18.33	1.01	6.71	180	0.54	10.4	

1. Pump dial setting (Example: netz, cycles/minute, etc)
2. usiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (stand in for Eh)

Re check depth to bottom

Measured Depth to bottom does not seem same as drilled depth to bottom.

Measured DTB @ 34.7' by. Attempted to lower & place pump @ 32' by.

When pump was lowered it stopped @ ~35'. Pump was pulled up & set @ 28.5' by.

When well was ready to be sampled the tubing was disconnected from the horizon. At this time the control box valves began to jump around. This caused the control box to not read. (Note - not read. Control box in the



MW-3

Location: (Site/Facility Name)		Former Ecol Chemical									
Date: 5/14/2013											
Sampling Personnel: SP #5C											
Weather: Sunny 66°F											
Identify Measuring Point (MP):		North side of Ave									
Well ID: MW-3											
Static Depth to Water (Prior to installing pump)											
Clock Time	Water Depth Below MP	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged Liters	Temp. °C	Spec. Conduct. ² uS/cm	pH	ORP/Eh ³ mv	DO mg/L	Turbidity NTU	Comments
24 HR	FT										
Tolerance	0.33 ft				3%	3%	± 0.1	± 10	± 0.3	10%	
1402	22.65		350		19.62	0.625	6.54	199	4.74	87.5	
1405	22.65		350		19.61	0.630	6.47	214	3.07	75.0	
1430	22.65		350		18.57	0.635	6.41	231	2.95	59.4	
1435	22.66		350		18.44	0.640	6.38	236	2.95	50.5	
1440	22.66		350		18.42	0.650	6.37	238	2.83	36.6	
1445	22.68		350		18.41	0.650	6.34	239	2.83	34.7	

- 1. Pump dial setting (Example: hertz, cycles/minute, etc) Well is 511/4 @ beginning
- 2. uSiemens per cm (same as umhos/cm) at 25°C Collected duplicate sample MW-XX from MW-3
- 3. Oxidation reduction potential (stand in for Eh)



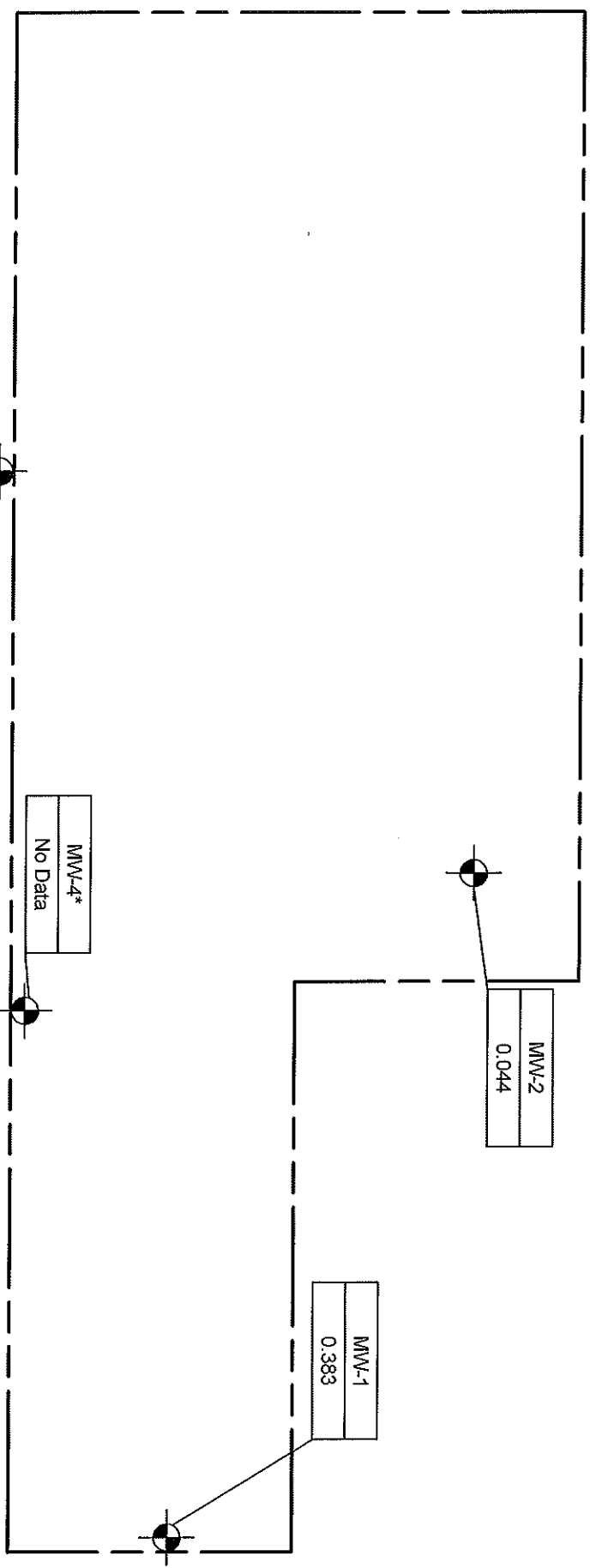
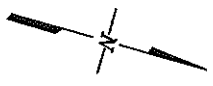
MD-4

[illegible]

- Duplicate sample m15-xx collected from m15-4* ~~tried~~ to collect duplicate, but well went dry. Collected only vials & 1/2 an amber bottle.
- Scaled flow rate back on well to nearly 50 ml/min, but well could not handle this rate.
- Jacker had a distinct odor to it. It smelled like garbage/sewage.

APPENDIX E

Data Logger Graphs



Legend

MWV-2
0.044

MWV-3
0.043

MWV-4*
No Data

MWV-2
0.044

MWV-1
0.383

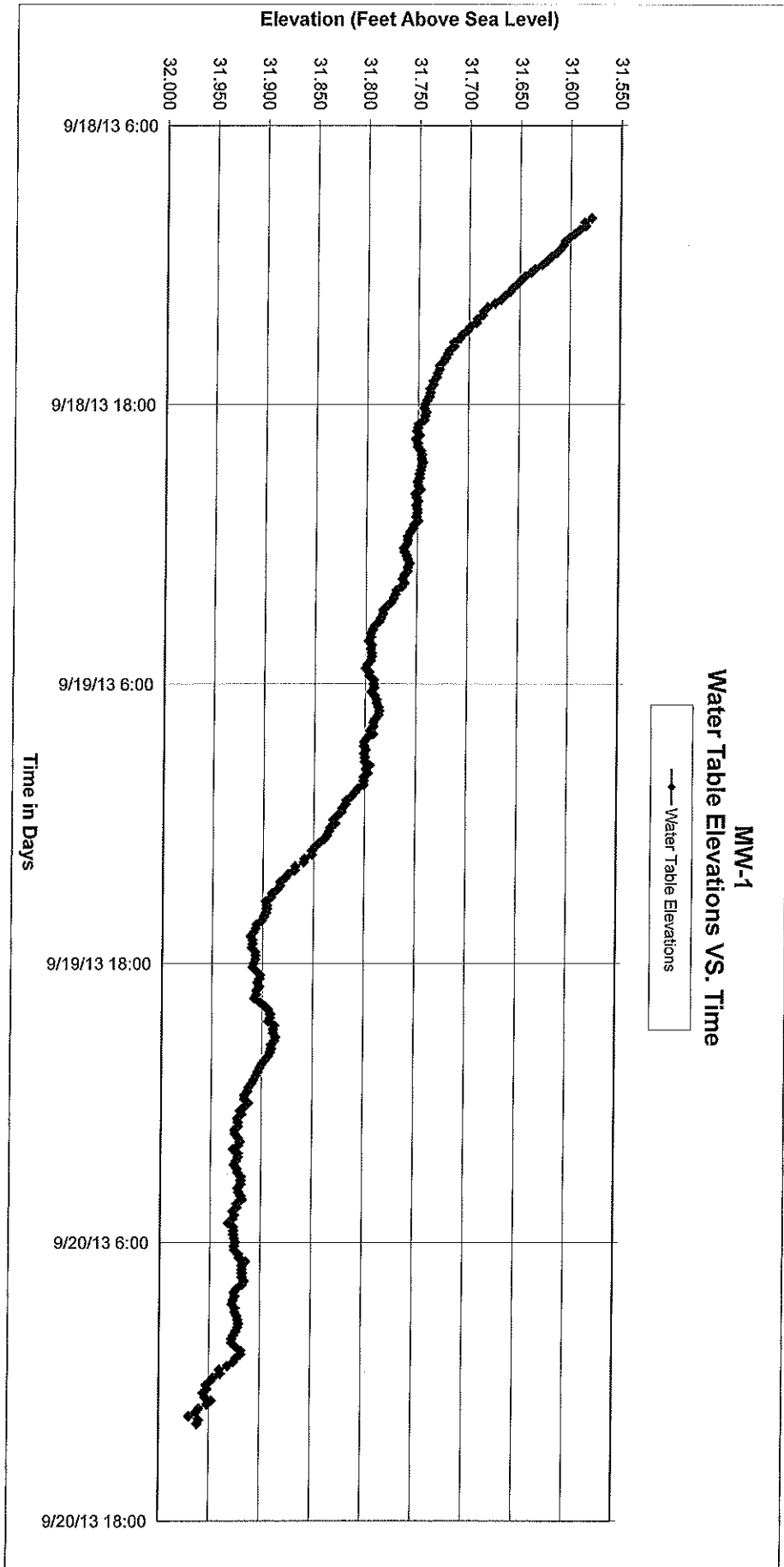
Well ID
Decrease in depth to water between
September 18 to 20, 2013.

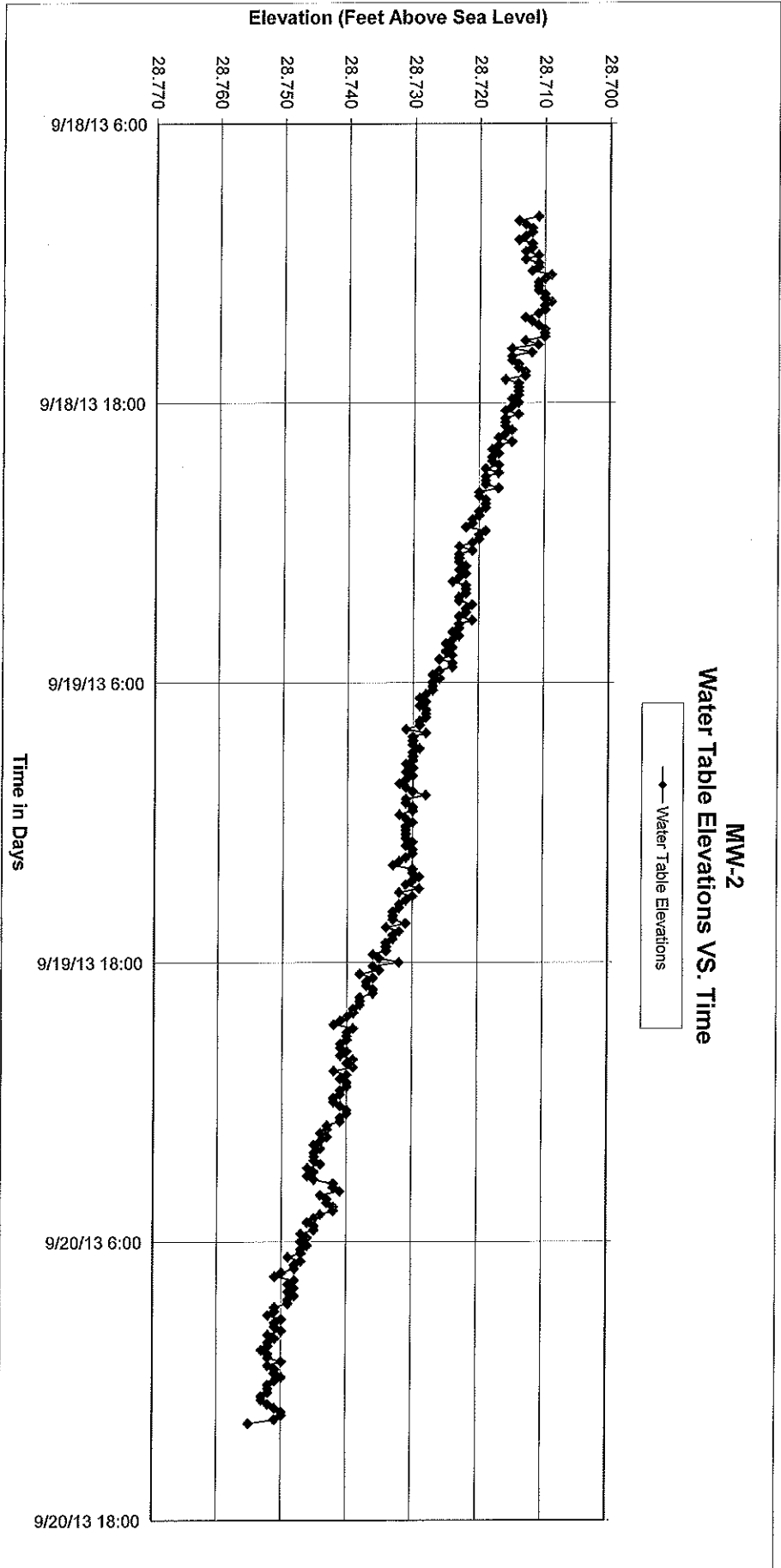
Approx. Scale (ft)

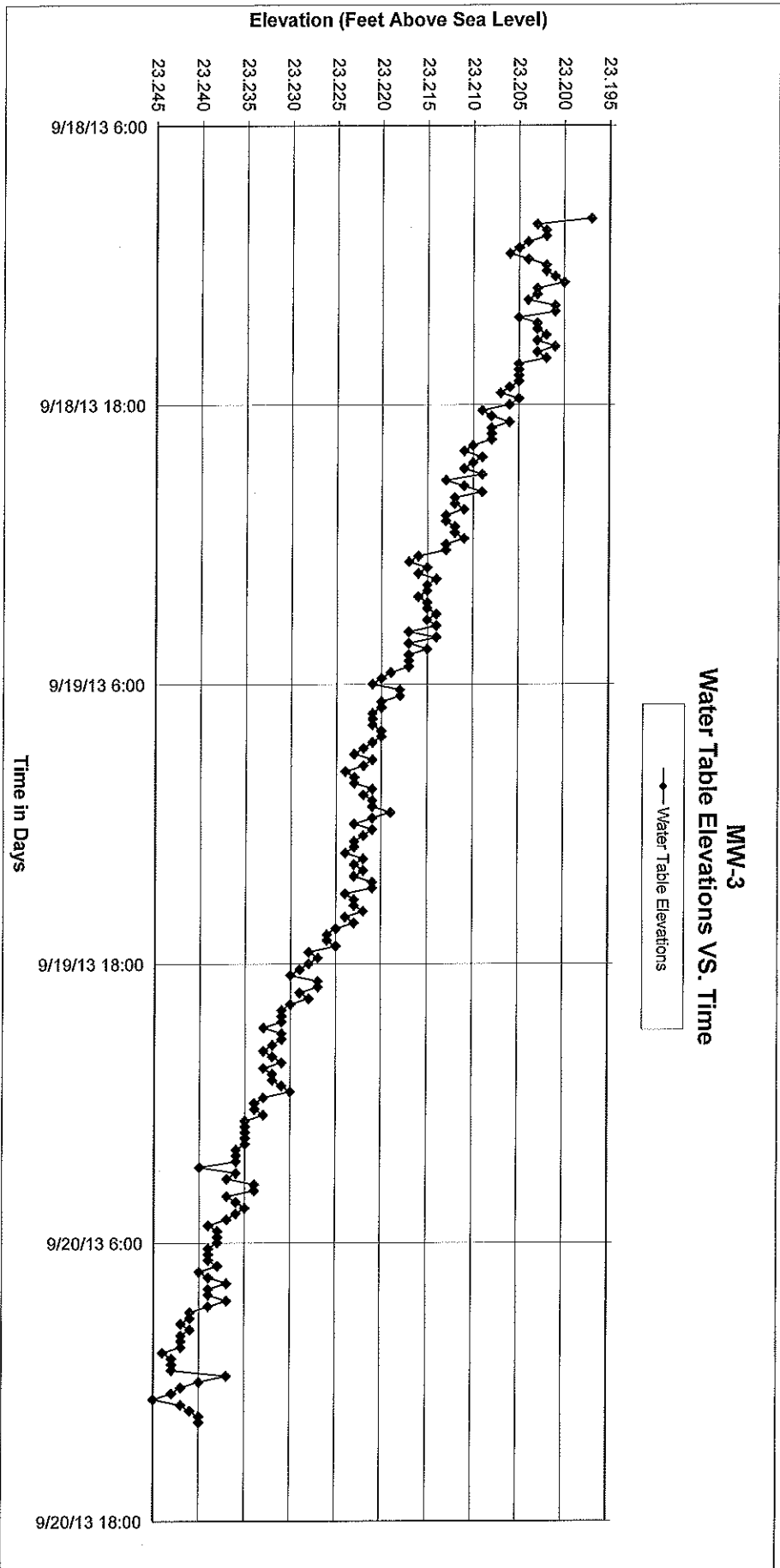


*MWV-4 intersects perched water above the water table,
data was not collected from this well.

CA RICH CONSULTANTS, INC.			
Environmental Specialists Since 1962			
17 Dupont Street, Plainview, New York 11803			
TITLE		DATE	
Location of Monitoring Wells		1/23/2014	
FIGURE		SCALE	
D-1		As Shown	
DRAWING NO.		DRAWN BY:	
2013-15		T.R.B./J.T.C.	
Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY		APPR. BY:	
		E.A.W.	







Log Configuration

Log Name MW-1
 Scheduled Start Time 9/18/2013 10:00:00 AM Eastern Daylight Time
 Scheduled Stop Time 9/20/2013 2:00:00 PM Eastern Daylight Time
 Type Linear
 Duration Days: 2 hrs: 04 mins: 00 secs: 00
 Interval Days: 0 hrs: 00 mins: 10 secs: 00

Other Log Settings

Pressure Offset: -0.276932 (PSI)
 Depth of Probe: 0.605551 (ft)
 Head Pressure: 0.26226 (PSI)
 Temperature: 21.4619 (C)

Log Notes:

Date and Time Note
 9/17/2013 10:45 Used Battery: 1% Used Memory: 1% User Name: JCooper
 10/8/2013 8:28 Post correction
 (null) Level Measurement Mode: Level Depth To Water
 (null) Specific gravity: 0.999
 (null) Level Reference Mode: Using data point at 9/20/2013 1:30:00 PM
 (null) Level reference: 31.97 feet
 (null) User Name: JCooper

Log Data:

Record Count 312

Sensors

1

1

345655 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Sensor: Pres(G) 35ft SN#: 345655 Level Depth To Water (ft)	Sensor: Pres(G) 35ft SN#: 345655 Pressure (PSI)	Sensor: Pres(G) 35ft SN#: 345655 Temperature (C)
9/18/2013 10:00	0	31.579	1.256	16.251
9/18/2013 10:10	600.001	31.586	1.254	16.251
9/18/2013 10:20	1200.001	31.585	1.254	16.246
9/18/2013 10:30	1800.001	31.591	1.251	16.247
9/18/2013 10:40	2400.001	31.596	1.249	16.248
9/18/2013 10:50	3000.001	31.601	1.247	16.246
9/18/2013 11:00	3600.001	31.605	1.245	16.247
9/18/2013 11:10	4200.001	31.607	1.245	16.239
9/18/2013 11:20	4800.001	31.61	1.243	16.246
9/18/2013 11:30	5400.001	31.614	1.242	16.25
9/18/2013 11:40	6000.001	31.619	1.239	16.247
9/18/2013 11:50	6600.001	31.623	1.237	16.25
9/18/2013 12:00	7200.001	31.628	1.235	16.252
9/18/2013 12:10	7800.001	31.635	1.232	16.253
9/18/2013 12:20	8400.001	31.639	1.231	16.251
9/18/2013 12:30	9000.001	31.645	1.228	16.253
9/18/2013 12:40	9600.001	31.649	1.226	16.247
9/18/2013 12:50	10200.001	31.653	1.224	16.249
9/18/2013 13:00	10800.001	31.657	1.223	16.254
9/18/2013 13:10	11400.001	31.66	1.221	16.251
9/18/2013 13:20	12000.001	31.665	1.219	16.249
9/18/2013 13:30	12600.001	31.669	1.218	16.255
9/18/2013 13:40	13200.001	31.675	1.215	16.249
9/18/2013 13:50	13800.001	31.682	1.212	16.253

9/18/2013 14:00	14400.001	31.686	1.21	16.255
9/18/2013 14:10	15000.001	31.687	1.21	16.254
9/18/2013 14:20	15600.001	31.692	1.208	16.252
9/18/2013 14:30	16200.001	31.693	1.207	16.252
9/18/2013 14:40	16800.001	31.699	1.205	16.252
9/18/2013 14:50	17400.001	31.702	1.204	16.259
9/18/2013 15:00	18000.001	31.707	1.201	16.254
9/18/2013 15:10	18600.001	31.709	1.2	16.254
9/18/2013 15:20	19200.001	31.715	1.197	16.257
9/18/2013 15:30	19800.001	31.715	1.198	16.246
9/18/2013 15:40	20400.001	31.719	1.196	16.249
9/18/2013 15:50	21000.001	31.721	1.195	16.246
9/18/2013 16:00	21600.001	31.723	1.194	16.245
9/18/2013 16:10	22200.001	31.725	1.193	16.245
9/18/2013 16:20	22800.001	31.729	1.192	16.249
9/18/2013 16:30	23400.001	31.729	1.192	16.244
9/18/2013 16:40	24000.001	31.731	1.191	16.245
9/18/2013 16:50	24600.001	31.732	1.19	16.25
9/18/2013 17:00	25200.001	31.735	1.189	16.251
9/18/2013 17:10	25800.001	31.735	1.189	16.256
9/18/2013 17:20	26400.001	31.738	1.188	16.253
9/18/2013 17:30	27000.001	31.738	1.188	16.256
9/18/2013 17:40	27600.001	31.739	1.187	16.252
9/18/2013 17:50	28200.001	31.741	1.186	16.254
9/18/2013 18:00	28800.001	31.743	1.185	16.249
9/18/2013 18:10	29400.001	31.744	1.185	16.254
9/18/2013 18:20	30000.001	31.742	1.186	16.249
9/18/2013 18:30	30600.001	31.743	1.186	16.243
9/18/2013 18:40	31200.001	31.744	1.185	16.244
9/18/2013 18:50	31800.001	31.749	1.183	16.253
9/18/2013 19:00	32400.001	31.75	1.183	16.248
9/18/2013 19:10	33000.001	31.751	1.182	16.245
9/18/2013 19:20	33600.001	31.748	1.184	16.249
9/18/2013 19:30	34200.001	31.752	1.182	16.248
9/18/2013 19:40	34800.001	31.75	1.183	16.245
9/18/2013 19:50	35400.001	31.75	1.183	16.25
9/18/2013 20:00	36000.001	31.747	1.184	16.246
9/18/2013 20:10	36600.001	31.746	1.184	16.245
9/18/2013 20:20	37200.001	31.746	1.184	16.246
9/18/2013 20:30	37800.001	31.745	1.185	16.249
9/18/2013 20:40	38400.001	31.746	1.184	16.247
9/18/2013 20:50	39000.001	31.747	1.184	16.246
9/18/2013 21:00	39600.001	31.748	1.183	16.248
9/18/2013 21:10	40200.001	31.748	1.183	16.246
9/18/2013 21:20	40800.001	31.75	1.182	16.25
9/18/2013 21:30	41400.001	31.749	1.183	16.253
9/18/2013 21:40	42000.001	31.747	1.184	16.248
9/18/2013 21:50	42600.001	31.752	1.182	16.254
9/18/2013 22:00	43200.001	31.751	1.182	16.254
9/18/2013 22:10	43800.001	31.749	1.183	16.25
9/18/2013 22:20	44400.001	31.751	1.182	16.251
9/18/2013 22:30	45000.001	31.75	1.182	16.251
9/18/2013 22:40	45600.001	31.75	1.182	16.247
9/18/2013 22:50	46200.001	31.751	1.182	16.255
9/18/2013 23:00	46800.001	31.749	1.183	16.245
9/18/2013 23:10	47400.001	31.753	1.181	16.246
9/18/2013 23:20	48000.001	31.754	1.181	16.248
9/18/2013 23:30	48600.001	31.757	1.179	16.249
9/18/2013 23:40	49200.001	31.759	1.179	16.251
9/18/2013 23:50	49800.001	31.759	1.179	16.248
9/19/2013 0:00	50400.001	31.76	1.178	16.248
9/19/2013 0:10	51000.001	31.763	1.177	16.249
9/19/2013 0:20	51600.001	31.762	1.177	16.245
9/19/2013 0:30	52200.001	31.76	1.178	16.245

9/19/2013 0:40	52800.001	31.759	1.179	16.248
9/19/2013 0:50	53400.001	31.757	1.18	16.248
9/19/2013 1:00	54000.001	31.759	1.179	16.248
9/19/2013 1:10	54600.001	31.759	1.179	16.247
9/19/2013 1:20	55200.001	31.762	1.177	16.25
9/19/2013 1:30	55800.001	31.764	1.176	16.252
9/19/2013 1:40	56400.001	31.762	1.177	16.246
9/19/2013 1:50	57000.001	31.765	1.176	16.249
9/19/2013 2:00	57600.001	31.77	1.174	16.253
9/19/2013 2:10	58200.001	31.771	1.173	16.253
9/19/2013 2:20	58800.001	31.773	1.173	16.251
9/19/2013 2:30	59400.001	31.775	1.172	16.254
9/19/2013 2:40	60000.001	31.779	1.17	16.254
9/19/2013 2:50	60600.001	31.783	1.168	16.253
9/19/2013 3:00	61200.001	31.783	1.168	16.253
9/19/2013 3:10	61800.001	31.785	1.168	16.252
9/19/2013 3:20	62400.001	31.787	1.167	16.259
9/19/2013 3:30	63000.001	31.791	1.165	16.255
9/19/2013 3:40	63600.001	31.793	1.164	16.259
9/19/2013 3:50	64200.001	31.795	1.163	16.263
9/19/2013 4:00	64800.001	31.795	1.163	16.263
9/19/2013 4:10	65400.001	31.797	1.162	16.265
9/19/2013 4:20	66000.001	31.794	1.163	16.258
9/19/2013 4:30	66600.001	31.795	1.163	16.259
9/19/2013 4:40	67200.001	31.794	1.163	16.258
9/19/2013 4:50	67800.001	31.794	1.164	16.257
9/19/2013 5:00	68400.001	31.795	1.163	16.255
9/19/2013 5:10	69000.001	31.798	1.162	16.257
9/19/2013 5:20	69600.001	31.8	1.161	16.258
9/19/2013 5:30	70200.001	31.796	1.162	16.254
9/19/2013 5:40	70800.001	31.796	1.163	16.253
9/19/2013 5:50	71400.001	31.792	1.164	16.253
9/19/2013 6:00	72000.001	31.792	1.164	16.251
9/19/2013 6:10	72600.001	31.791	1.165	16.254
9/19/2013 6:20	73200.001	31.794	1.164	16.251
9/19/2013 6:30	73800.001	31.791	1.165	16.25
9/19/2013 6:40	74400.001	31.789	1.165	16.254
9/19/2013 6:50	75000.001	31.789	1.165	16.252
9/19/2013 7:00	75600.001	31.787	1.167	16.254
9/19/2013 7:10	76200.001	31.786	1.167	16.254
9/19/2013 7:20	76800.001	31.787	1.166	16.255
9/19/2013 7:30	77400.001	31.79	1.165	16.258
9/19/2013 7:40	78000.001	31.792	1.164	16.259
9/19/2013 7:50	78600.001	31.792	1.165	16.257
9/19/2013 8:00	79200.001	31.795	1.163	16.264
9/19/2013 8:10	79800.001	31.792	1.164	16.263
9/19/2013 8:20	80400.001	31.798	1.162	16.259
9/19/2013 8:30	81000.001	31.801	1.16	16.265
9/19/2013 8:40	81600.001	31.801	1.161	16.26
9/19/2013 8:50	82200.001	31.799	1.161	16.256
9/19/2013 9:00	82800.001	31.801	1.16	16.26
9/19/2013 9:10	83400.001	31.8	1.161	16.258
9/19/2013 9:20	84000.001	31.8	1.161	16.255
9/19/2013 9:30	84600.001	31.795	1.163	16.253
9/19/2013 9:40	85200.001	31.799	1.161	16.255
9/19/2013 9:50	85800.001	31.797	1.162	16.259
9/19/2013 10:00	86400.001	31.801	1.16	16.264
9/19/2013 10:10	87000.001	31.801	1.16	16.263
9/19/2013 10:20	87600.001	31.801	1.16	16.264
9/19/2013 10:30	88200.001	31.807	1.158	16.26
9/19/2013 10:40	88800.001	31.81	1.156	16.269
9/19/2013 10:50	89400.001	31.813	1.155	16.267
9/19/2013 11:00	90000.001	31.818	1.153	16.267
9/19/2013 11:10	90600.001	31.819	1.153	16.263

9/19/2013 11:20	91200.001	31.822	1.151	16.267
9/19/2013 11:30	91800.001	31.823	1.151	16.264
9/19/2013 11:40	92400.001	31.827	1.149	16.26
9/19/2013 11:50	93000.001	31.831	1.148	16.262
9/19/2013 12:00	93600.001	31.829	1.148	16.26
9/19/2013 12:10	94200.001	31.834	1.146	16.255
9/19/2013 12:20	94800.001	31.835	1.146	16.262
9/19/2013 12:30	95400.001	31.837	1.145	16.256
9/19/2013 12:40	96000.001	31.84	1.143	16.26
9/19/2013 12:50	96600.001	31.845	1.142	16.265
9/19/2013 13:00	97200.001	31.849	1.14	16.264
9/19/2013 13:10	97800.001	31.852	1.139	16.263
9/19/2013 13:20	98400.001	31.852	1.138	16.263
9/19/2013 13:30	99000.001	31.859	1.135	16.262
9/19/2013 13:40	99600.001	31.86	1.135	16.262
9/19/2013 13:50	100200.001	31.868	1.132	16.266
9/19/2013 14:00	100800.001	31.869	1.131	16.255
9/19/2013 14:10	101400.001	31.875	1.128	16.265
9/19/2013 14:20	102000.001	31.878	1.127	16.268
9/19/2013 14:30	102600.001	31.883	1.125	16.267
9/19/2013 14:40	103200.001	31.883	1.125	16.262
9/19/2013 14:50	103800.001	31.886	1.123	16.263
9/19/2013 15:00	104400.001	31.891	1.121	16.263
9/19/2013 15:10	105000.001	31.892	1.121	16.263
9/19/2013 15:20	105600.001	31.897	1.119	16.262
9/19/2013 15:30	106200.001	31.896	1.119	16.262
9/19/2013 15:40	106800.001	31.896	1.119	16.254
9/19/2013 15:50	107400.001	31.897	1.119	16.261
9/19/2013 16:00	108000.001	31.899	1.118	16.262
9/19/2013 16:10	108600.001	31.901	1.117	16.259
9/19/2013 16:20	109200.001	31.906	1.115	16.267
9/19/2013 16:30	109800.001	31.907	1.114	16.267
9/19/2013 16:40	110400.001	31.909	1.114	16.268
9/19/2013 16:50	111000.001	31.912	1.112	16.269
9/19/2013 17:00	111600.001	31.91	1.113	16.267
9/19/2013 17:10	112200.001	31.91	1.113	16.271
9/19/2013 17:20	112800.001	31.911	1.113	16.267
9/19/2013 17:30	113400.001	31.907	1.114	16.258
9/19/2013 17:40	114000.001	31.907	1.114	16.264
9/19/2013 17:50	114600.001	31.907	1.114	16.267
9/19/2013 18:00	115200.001	31.909	1.113	16.258
9/19/2013 18:10	115800.001	31.91	1.113	16.264
9/19/2013 18:20	116400.001	31.906	1.115	16.258
9/19/2013 18:30	117000.001	31.902	1.117	16.255
9/19/2013 18:40	117600.001	31.903	1.116	16.267
9/19/2013 18:50	118200.001	31.905	1.115	16.267
9/19/2013 19:00	118800.001	31.903	1.116	16.265
9/19/2013 19:10	119400.001	31.906	1.115	16.263
9/19/2013 19:20	120000.001	31.906	1.115	16.262
9/19/2013 19:30	120600.001	31.908	1.114	16.262
9/19/2013 19:40	121200.001	31.902	1.117	16.258
9/19/2013 19:50	121800.001	31.898	1.119	16.269
9/19/2013 20:00	122400.001	31.894	1.12	16.265
9/19/2013 20:10	123000.001	31.892	1.121	16.267
9/19/2013 20:20	123600.001	31.892	1.121	16.264
9/19/2013 20:30	124200.001	31.894	1.12	16.267
9/19/2013 20:40	124800.001	31.888	1.123	16.27
9/19/2013 20:50	125400.001	31.889	1.122	16.272
9/19/2013 21:00	126000.001	31.889	1.122	16.271
9/19/2013 21:10	126600.001	31.887	1.123	16.267
9/19/2013 21:20	127200.001	31.888	1.123	16.261
9/19/2013 21:30	127800.001	31.891	1.121	16.26
9/19/2013 21:40	128400.001	31.891	1.121	16.266
9/19/2013 21:50	129000.001	31.892	1.121	16.265

9/19/2013 22:00	129600.001	31.894	1.12	16.269
9/19/2013 22:10	130200.001	31.897	1.119	16.274
9/19/2013 22:20	130800.001	31.9	1.117	16.266
9/19/2013 22:30	131400.001	31.902	1.117	16.265
9/19/2013 22:40	132000.001	31.904	1.116	16.272
9/19/2013 22:50	132600.001	31.906	1.115	16.265
9/19/2013 23:00	133200.001	31.908	1.114	16.266
9/19/2013 23:10	133800.001	31.91	1.113	16.267
9/19/2013 23:20	134400.001	31.913	1.112	16.272
9/19/2013 23:30	135000.001	31.914	1.111	16.265
9/19/2013 23:40	135600.001	31.917	1.11	16.26
9/19/2013 23:50	136200.001	31.917	1.11	16.27
9/20/2013 0:00	136800.001	31.913	1.112	16.263
9/20/2013 0:10	137400.001	31.917	1.11	16.263
9/20/2013 0:20	138000.001	31.921	1.108	16.263
9/20/2013 0:30	138600.001	31.92	1.109	16.272
9/20/2013 0:40	139200.001	31.924	1.107	16.265
9/20/2013 0:50	139800.001	31.923	1.107	16.27
9/20/2013 1:00	140400.001	31.923	1.108	16.267
9/20/2013 1:10	141000.001	31.927	1.106	16.271
9/20/2013 1:20	141600.001	31.926	1.106	16.27
9/20/2013 1:30	142200.001	31.923	1.108	16.268
9/20/2013 1:40	142800.001	31.921	1.109	16.269
9/20/2013 1:50	143400.001	31.923	1.108	16.272
9/20/2013 2:00	144000.001	31.928	1.106	16.272
9/20/2013 2:10	144600.001	31.923	1.108	16.27
9/20/2013 2:20	145200.001	31.923	1.107	16.266
9/20/2013 2:30	145800.001	31.925	1.107	16.272
9/20/2013 2:40	146400.001	31.927	1.106	16.271
9/20/2013 2:50	147000.001	31.924	1.107	16.271
9/20/2013 3:00	147600.001	31.923	1.107	16.274
9/20/2013 3:10	148200.001	31.92	1.109	16.271
9/20/2013 3:20	148800.001	31.92	1.109	16.268
9/20/2013 3:30	149400.001	31.92	1.109	16.266
9/20/2013 3:40	150000.001	31.923	1.108	16.275
9/20/2013 3:50	150600.001	31.922	1.108	16.274
9/20/2013 4:00	151200.001	31.92	1.109	16.284
9/20/2013 4:10	151800.001	31.919	1.109	16.283
9/20/2013 4:20	152400.001	31.924	1.107	16.282
9/20/2013 4:30	153000.001	31.924	1.107	16.285
9/20/2013 4:40	153600.001	31.928	1.106	16.287
9/20/2013 4:50	154200.001	31.926	1.106	16.289
9/20/2013 5:00	154800.001	31.928	1.105	16.283
9/20/2013 5:10	155400.001	31.932	1.104	16.284
9/20/2013 5:20	156000.001	31.927	1.106	16.28
9/20/2013 5:30	156600.001	31.927	1.106	16.283
9/20/2013 5:40	157200.001	31.927	1.106	16.283
9/20/2013 5:50	157800.001	31.926	1.106	16.276
9/20/2013 6:00	158400.001	31.925	1.107	16.274
9/20/2013 6:10	159000.001	31.926	1.106	16.275
9/20/2013 6:20	159600.001	31.926	1.106	16.28
9/20/2013 6:30	160200.001	31.922	1.108	16.273
9/20/2013 6:40	160800.001	31.921	1.109	16.276
9/20/2013 6:50	161400.001	31.915	1.111	16.273
9/20/2013 7:00	162000.001	31.918	1.11	16.278
9/20/2013 7:10	162600.001	31.918	1.11	16.275
9/20/2013 7:20	163200.001	31.918	1.11	16.279
9/20/2013 7:30	163800.001	31.918	1.11	16.275
9/20/2013 7:40	164400.001	31.916	1.111	16.273
9/20/2013 7:50	165000.001	31.918	1.11	16.272
9/20/2013 8:00	165600.001	31.923	1.108	16.274
9/20/2013 8:10	166200.001	31.926	1.106	16.273
9/20/2013 8:20	166800.001	31.925	1.107	16.272
9/20/2013 8:30	167400.001	31.927	1.106	16.273

9/20/2013 8:40	168000.001	31.928	1.105	16.274
9/20/2013 8:50	168600.001	31.925	1.107	16.273
9/20/2013 9:00	169200.001	31.925	1.107	16.277
9/20/2013 9:10	169800.001	31.923	1.108	16.284
9/20/2013 9:20	170400.001	31.922	1.108	16.276
9/20/2013 9:30	171000.001	31.921	1.109	16.277
9/20/2013 9:40	171600.001	31.922	1.108	16.274
9/20/2013 9:50	172200.001	31.924	1.107	16.279
9/20/2013 10:00	172800.001	31.926	1.106	16.28
9/20/2013 10:10	173400.001	31.928	1.105	16.274
9/20/2013 10:20	174000.001	31.928	1.106	16.28
9/20/2013 10:30	174600.001	31.924	1.107	16.279
9/20/2013 10:40	175200.001	31.919	1.109	16.273
9/20/2013 10:50	175800.001	31.919	1.109	16.272
9/20/2013 11:00	176400.001	31.924	1.107	16.273
9/20/2013 11:10	177000.001	31.926	1.106	16.275
9/20/2013 11:20	177600.001	31.932	1.104	16.272
9/20/2013 11:30	178200.001	31.94	1.1	16.278
9/20/2013 11:40	178800.001	31.939	1.101	16.277
9/20/2013 11:50	179400.001	31.946	1.097	16.274
9/20/2013 12:00	180000.001	31.949	1.096	16.278
9/20/2013 12:10	180600.001	31.953	1.095	16.276
9/20/2013 12:20	181200.001	31.952	1.095	16.274
9/20/2013 12:30	181800.001	31.956	1.094	16.276
9/20/2013 12:40	182400.001	31.954	1.094	16.273
9/20/2013 12:50	183000.001	31.948	1.097	16.266
9/20/2013 13:00	183600.001	31.952	1.095	16.274
9/20/2013 13:10	184200.001	31.96	1.092	16.279
9/20/2013 13:20	184800.001	31.963	1.09	16.283
9/20/2013 13:30	185400.001	31.97	1.087	16.281
9/20/2013 13:40	186000.001	31.96	1.091	16.286
9/20/2013 13:50	186600.001	31.962	1.091	16.283

Log Configuration

Log Name MW-2
 Scheduled Start Time 9/18/2013 10:00:00 AM Eastern Daylight Time
 Scheduled Stop Time 9/20/2013 2:00:00 PM Eastern Daylight Time
 Type Linear
 Duration Days: 2 hrs: 04 mins: 00 secs: 00
 Interval Days: 0 hrs: 00 mins: 10 secs: 00

Other Log Settings

Depth of Probe: 0.0150419 (ft)
 Head Pressure: 0.00651455 (PSI)
 Temperature: 21.6561 (C)

Log Notes:

Date and Time Note

9/17/2013 10:50 Used Battery: 1% Used Memory: 1% User Name: JCooper

10/8/2013 8:29 Post correction

(null) Level Measurement Mode: Level Depth To Water
 (null) Specific gravity: 0.999
 (null) Level Reference Mode: Using data point at 9/20/2013 1:30:00 PM
 (null) Level reference: 28.75 feet
 (null) User Name: JCooper

Log Data:

Record Count 312

Sensors

1

1

345353 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Sensor: Pres(G) 35ft SN#: 345353 Level Depth To Water (ft)	Sensor: Pres(G) 35ft SN#: 345353 Pressure (PSI)	Sensor: Pres(G) 35ft SN#: 345353 Temperature (C)
9/18/2013 10:00	0	28.711	0.58	14.975
9/18/2013 10:10	600.001	28.714	0.579	14.97
9/18/2013 10:20	1200.001	28.713	0.579	14.964
9/18/2013 10:30	1800.001	28.712	0.58	14.961
9/18/2013 10:40	2400.001	28.712	0.58	14.957
9/18/2013 10:50	3000.001	28.713	0.579	14.952
9/18/2013 11:00	3600.001	28.714	0.579	14.951
9/18/2013 11:10	4200.001	28.712	0.58	14.949
9/18/2013 11:20	4800.001	28.712	0.58	14.948
9/18/2013 11:30	5400.001	28.713	0.579	14.95
9/18/2013 11:40	6000.001	28.711	0.58	14.947
9/18/2013 11:50	6600.001	28.713	0.579	14.948
9/18/2013 12:00	7200.001	28.711	0.58	14.949
9/18/2013 12:10	7800.001	28.711	0.58	14.947
9/18/2013 12:20	8400.001	28.712	0.58	14.949
9/18/2013 12:30	9000.001	28.709	0.581	14.948
9/18/2013 12:40	9600.001	28.71	0.581	14.948
9/18/2013 12:50	10200.001	28.711	0.58	14.945
9/18/2013 13:00	10800.001	28.711	0.58	14.946

9/18/2013 13:10	11400.001	28.711	0.58	14.944
9/18/2013 13:20	12000.001	28.71	0.58	14.944
9/18/2013 13:30	12600.001	28.71	0.581	14.946
9/18/2013 13:40	13200.001	28.709	0.581	14.944
9/18/2013 13:50	13800.001	28.71	0.58	14.945
9/18/2013 14:00	14400.001	28.71	0.581	14.945
9/18/2013 14:10	15000.001	28.711	0.58	14.946
9/18/2013 14:20	15600.001	28.713	0.579	14.945
9/18/2013 14:30	16200.001	28.712	0.58	14.942
9/18/2013 14:40	16800.001	28.711	0.58	14.945
9/18/2013 14:50	17400.001	28.71	0.58	14.945
9/18/2013 15:00	18000.001	28.71	0.58	14.945
9/18/2013 15:10	18600.001	28.71	0.581	14.945
9/18/2013 15:20	19200.001	28.713	0.579	14.944
9/18/2013 15:30	19800.001	28.711	0.58	14.944
9/18/2013 15:40	20400.001	28.715	0.579	14.948
9/18/2013 15:50	21000.001	28.712	0.58	14.946
9/18/2013 16:00	21600.001	28.715	0.578	14.946
9/18/2013 16:10	22200.001	28.715	0.578	14.947
9/18/2013 16:20	22800.001	28.714	0.579	14.945
9/18/2013 16:30	23400.001	28.714	0.579	14.946
9/18/2013 16:40	24000.001	28.713	0.579	14.943
9/18/2013 16:50	24600.001	28.713	0.579	14.946
9/18/2013 17:00	25200.001	28.716	0.578	14.946
9/18/2013 17:10	25800.001	28.714	0.579	14.948
9/18/2013 17:20	26400.001	28.714	0.579	14.947
9/18/2013 17:30	27000.001	28.714	0.579	14.946
9/18/2013 17:40	27600.001	28.714	0.579	14.945
9/18/2013 17:50	28200.001	28.715	0.578	14.945
9/18/2013 18:00	28800.001	28.714	0.579	14.943
9/18/2013 18:10	29400.001	28.715	0.578	14.944
9/18/2013 18:20	30000.001	28.716	0.578	14.946
9/18/2013 18:30	30600.001	28.714	0.579	14.948
9/18/2013 18:40	31200.001	28.716	0.578	14.943
9/18/2013 18:50	31800.001	28.716	0.578	14.948
9/18/2013 19:00	32400.001	28.716	0.578	14.945
9/18/2013 19:10	33000.001	28.715	0.578	14.947
9/18/2013 19:20	33600.001	28.716	0.578	14.946
9/18/2013 19:30	34200.001	28.717	0.578	14.948
9/18/2013 19:40	34800.001	28.715	0.578	14.946
9/18/2013 19:50	35400.001	28.717	0.577	14.947
9/18/2013 20:00	36000.001	28.718	0.577	14.948
9/18/2013 20:10	36600.001	28.717	0.578	14.943
9/18/2013 20:20	37200.001	28.718	0.577	14.944
9/18/2013 20:30	37800.001	28.718	0.577	14.944
9/18/2013 20:40	38400.001	28.717	0.577	14.947
9/18/2013 20:50	39000.001	28.719	0.577	14.945
9/18/2013 21:00	39600.001	28.717	0.577	14.945
9/18/2013 21:10	40200.001	28.719	0.577	14.947
9/18/2013 21:20	40800.001	28.719	0.577	14.945
9/18/2013 21:30	41400.001	28.719	0.577	14.947
9/18/2013 21:40	42000.001	28.717	0.577	14.947
9/18/2013 21:50	42600.001	28.72	0.576	14.945
9/18/2013 22:00	43200.001	28.72	0.576	14.947
9/18/2013 22:10	43800.001	28.719	0.577	14.948

9/18/2013 22:20	44400.001	28.719	0.577	14.945
9/18/2013 22:30	45000.001	28.719	0.576	14.948
9/18/2013 22:40	45600.001	28.72	0.576	14.947
9/18/2013 22:50	46200.001	28.72	0.576	14.945
9/18/2013 23:00	46800.001	28.721	0.576	14.946
9/18/2013 23:10	47400.001	28.721	0.576	14.948
9/18/2013 23:20	48000.001	28.722	0.575	14.948
9/18/2013 23:30	48600.001	28.719	0.577	14.951
9/18/2013 23:40	49200.001	28.72	0.576	14.948
9/18/2013 23:50	49800.001	28.72	0.576	14.948
9/19/2013 0:00	50400.001	28.721	0.576	14.947
9/19/2013 0:10	51000.001	28.723	0.575	14.944
9/19/2013 0:20	51600.001	28.721	0.576	14.948
9/19/2013 0:30	52200.001	28.723	0.575	14.946
9/19/2013 0:40	52800.001	28.723	0.575	14.946
9/19/2013 0:50	53400.001	28.723	0.575	14.948
9/19/2013 1:00	54000.001	28.722	0.575	14.948
9/19/2013 1:10	54600.001	28.723	0.575	14.948
9/19/2013 1:20	55200.001	28.722	0.575	14.95
9/19/2013 1:30	55800.001	28.723	0.575	14.949
9/19/2013 1:40	56400.001	28.724	0.575	14.948
9/19/2013 1:50	57000.001	28.722	0.575	14.95
9/19/2013 2:00	57600.001	28.722	0.575	14.952
9/19/2013 2:10	58200.001	28.722	0.575	14.951
9/19/2013 2:20	58800.001	28.723	0.575	14.951
9/19/2013 2:30	59400.001	28.723	0.575	14.949
9/19/2013 2:40	60000.001	28.721	0.576	14.95
9/19/2013 2:50	60600.001	28.722	0.575	14.95
9/19/2013 3:00	61200.001	28.722	0.575	14.953
9/19/2013 3:10	61800.001	28.723	0.575	14.95
9/19/2013 3:20	62400.001	28.721	0.576	14.949
9/19/2013 3:30	63000.001	28.723	0.575	14.949
9/19/2013 3:40	63600.001	28.723	0.575	14.952
9/19/2013 3:50	64200.001	28.724	0.575	14.954
9/19/2013 4:00	64800.001	28.723	0.575	14.951
9/19/2013 4:10	65400.001	28.724	0.574	14.948
9/19/2013 4:20	66000.001	28.725	0.574	14.952
9/19/2013 4:30	66600.001	28.724	0.574	14.948
9/19/2013 4:40	67200.001	28.725	0.574	14.949
9/19/2013 4:50	67800.001	28.724	0.574	14.949
9/19/2013 5:00	68400.001	28.726	0.574	14.95
9/19/2013 5:10	69000.001	28.724	0.574	14.953
9/19/2013 5:20	69600.001	28.724	0.574	14.952
9/19/2013 5:30	70200.001	28.726	0.573	14.95
9/19/2013 5:40	70800.001	28.727	0.573	14.952
9/19/2013 5:50	71400.001	28.726	0.573	14.95
9/19/2013 6:00	72000.001	28.727	0.573	14.95
9/19/2013 6:10	72600.001	28.727	0.573	14.95
9/19/2013 6:20	73200.001	28.727	0.573	14.949
9/19/2013 6:30	73800.001	28.728	0.573	14.953
9/19/2013 6:40	74400.001	28.729	0.572	14.953
9/19/2013 6:50	75000.001	28.728	0.573	14.951
9/19/2013 7:00	75600.001	28.729	0.572	14.95
9/19/2013 7:10	76200.001	28.728	0.573	14.95
9/19/2013 7:20	76800.001	28.728	0.573	14.948

9/19/2013 7:30	77400.001	28.728	0.573	14.949
9/19/2013 7:40	78000.001	28.729	0.572	14.951
9/19/2013 7:50	78600.001	28.729	0.572	14.95
9/19/2013 8:00	79200.001	28.731	0.572	14.949
9/19/2013 8:10	79800.001	28.728	0.573	14.948
9/19/2013 8:20	80400.001	28.73	0.572	14.951
9/19/2013 8:30	81000.001	28.73	0.572	14.95
9/19/2013 8:40	81600.001	28.73	0.572	14.948
9/19/2013 8:50	82200.001	28.729	0.572	14.952
9/19/2013 9:00	82800.001	28.73	0.572	14.952
9/19/2013 9:10	83400.001	28.73	0.572	14.948
9/19/2013 9:20	84000.001	28.73	0.572	14.951
9/19/2013 9:30	84600.001	28.731	0.571	14.948
9/19/2013 9:40	85200.001	28.73	0.572	14.954
9/19/2013 9:50	85800.001	28.731	0.571	14.95
9/19/2013 10:00	86400.001	28.73	0.572	14.952
9/19/2013 10:10	87000.001	28.731	0.571	14.951
9/19/2013 10:20	87600.001	28.732	0.571	14.951
9/19/2013 10:30	88200.001	28.731	0.571	14.948
9/19/2013 10:40	88800.001	28.73	0.572	14.95
9/19/2013 10:50	89400.001	28.728	0.573	14.952
9/19/2013 11:00	90000.001	28.731	0.572	14.95
9/19/2013 11:10	90600.001	28.731	0.571	14.95
9/19/2013 11:20	91200.001	28.73	0.572	14.95
9/19/2013 11:30	91800.001	28.73	0.572	14.951
9/19/2013 11:40	92400.001	28.732	0.571	14.949
9/19/2013 11:50	93000.001	28.731	0.571	14.952
9/19/2013 12:00	93600.001	28.73	0.572	14.954
9/19/2013 12:10	94200.001	28.731	0.571	14.953
9/19/2013 12:20	94800.001	28.731	0.571	14.952
9/19/2013 12:30	95400.001	28.731	0.571	14.951
9/19/2013 12:40	96000.001	28.731	0.571	14.95
9/19/2013 12:50	96600.001	28.73	0.572	14.954
9/19/2013 13:00	97200.001	28.731	0.571	14.957
9/19/2013 13:10	97800.001	28.73	0.572	14.952
9/19/2013 13:20	98400.001	28.73	0.572	14.952
9/19/2013 13:30	99000.001	28.731	0.571	14.952
9/19/2013 13:40	99600.001	28.732	0.571	14.947
9/19/2013 13:50	100200.001	28.733	0.571	14.949
9/19/2013 14:00	100800.001	28.73	0.572	14.949
9/19/2013 14:10	101400.001	28.73	0.572	14.949
9/19/2013 14:20	102000.001	28.729	0.572	14.95
9/19/2013 14:30	102600.001	28.73	0.572	14.953
9/19/2013 14:40	103200.001	28.731	0.572	14.952
9/19/2013 14:50	103800.001	28.729	0.572	14.948
9/19/2013 15:00	104400.001	28.732	0.571	14.953
9/19/2013 15:10	105000.001	28.73	0.572	14.953
9/19/2013 15:20	105600.001	28.731	0.572	14.95
9/19/2013 15:30	106200.001	28.732	0.571	14.952
9/19/2013 15:40	106800.001	28.732	0.571	14.951
9/19/2013 15:50	107400.001	28.733	0.571	14.952
9/19/2013 16:00	108000.001	28.733	0.571	14.954
9/19/2013 16:10	108600.001	28.733	0.571	14.952
9/19/2013 16:20	109200.001	28.731	0.571	14.954
9/19/2013 16:30	109800.001	28.734	0.57	14.951

9/19/2013 16:40	110400.001	28.732	0.571	14.955
9/19/2013 16:50	111000.001	28.733	0.57	14.953
9/19/2013 17:00	111600.001	28.733	0.571	14.951
9/19/2013 17:10	112200.001	28.734	0.57	14.954
9/19/2013 17:20	112800.001	28.734	0.57	14.951
9/19/2013 17:30	113400.001	28.734	0.57	14.953
9/19/2013 17:40	114000.001	28.736	0.569	14.956
9/19/2013 17:50	114600.001	28.735	0.57	14.953
9/19/2013 18:00	115200.001	28.732	0.571	14.953
9/19/2013 18:10	115800.001	28.736	0.569	14.951
9/19/2013 18:20	116400.001	28.735	0.57	14.95
9/19/2013 18:30	117000.001	28.738	0.568	14.952
9/19/2013 18:40	117600.001	28.736	0.569	14.955
9/19/2013 18:50	118200.001	28.737	0.569	14.952
9/19/2013 19:00	118800.001	28.737	0.569	14.951
9/19/2013 19:10	119400.001	28.736	0.569	14.953
9/19/2013 19:20	120000.001	28.736	0.569	14.955
9/19/2013 19:30	120600.001	28.738	0.568	14.956
9/19/2013 19:40	121200.001	28.738	0.568	14.951
9/19/2013 19:50	121800.001	28.738	0.569	14.952
9/19/2013 20:00	122400.001	28.739	0.568	14.955
9/19/2013 20:10	123000.001	28.739	0.568	14.954
9/19/2013 20:20	123600.001	28.74	0.567	14.951
9/19/2013 20:30	124200.001	28.741	0.567	14.955
9/19/2013 20:40	124800.001	28.742	0.567	14.952
9/19/2013 20:50	125400.001	28.739	0.568	14.954
9/19/2013 21:00	126000.001	28.74	0.567	14.954
9/19/2013 21:10	126600.001	28.74	0.567	14.951
9/19/2013 21:20	127200.001	28.74	0.568	14.954
9/19/2013 21:30	127800.001	28.741	0.567	14.954
9/19/2013 21:40	128400.001	28.741	0.567	14.954
9/19/2013 21:50	129000.001	28.74	0.568	14.954
9/19/2013 22:00	129600.001	28.741	0.567	14.954
9/19/2013 22:10	130200.001	28.739	0.568	14.953
9/19/2013 22:20	130800.001	28.74	0.567	14.953
9/19/2013 22:30	131400.001	28.739	0.568	14.95
9/19/2013 22:40	132000.001	28.742	0.567	14.957
9/19/2013 22:50	132600.001	28.74	0.568	14.955
9/19/2013 23:00	133200.001	28.741	0.567	14.953
9/19/2013 23:10	133800.001	28.74	0.568	14.953
9/19/2013 23:20	134400.001	28.74	0.567	14.953
9/19/2013 23:30	135000.001	28.741	0.567	14.954
9/19/2013 23:40	135600.001	28.741	0.567	14.953
9/19/2013 23:50	136200.001	28.742	0.567	14.952
9/20/2013 0:00	136800.001	28.742	0.567	14.955
9/20/2013 0:10	137400.001	28.741	0.567	14.954
9/20/2013 0:20	138000.001	28.74	0.567	14.957
9/20/2013 0:30	138600.001	28.74	0.567	14.953
9/20/2013 0:40	139200.001	28.741	0.567	14.955
9/20/2013 0:50	139800.001	28.741	0.567	14.957
9/20/2013 1:00	140400.001	28.743	0.566	14.955
9/20/2013 1:10	141000.001	28.743	0.566	14.955
9/20/2013 1:20	141600.001	28.744	0.566	14.953
9/20/2013 1:30	142200.001	28.743	0.566	14.954
9/20/2013 1:40	142800.001	28.744	0.566	14.953

9/20/2013 1:50	143400.001	28.745	0.565	14.956
9/20/2013 2:00	144000.001	28.744	0.566	14.954
9/20/2013 2:10	144600.001	28.745	0.565	14.955
9/20/2013 2:20	145200.001	28.745	0.565	14.954
9/20/2013 2:30	145800.001	28.745	0.566	14.953
9/20/2013 2:40	146400.001	28.744	0.566	14.956
9/20/2013 2:50	147000.001	28.746	0.565	14.954
9/20/2013 3:00	147600.001	28.745	0.565	14.954
9/20/2013 3:10	148200.001	28.746	0.565	14.955
9/20/2013 3:20	148800.001	28.745	0.565	14.955
9/20/2013 3:30	149400.001	28.742	0.567	14.955
9/20/2013 3:40	150000.001	28.742	0.567	14.957
9/20/2013 3:50	150600.001	28.741	0.567	14.955
9/20/2013 4:00	151200.001	28.744	0.566	14.954
9/20/2013 4:10	151800.001	28.743	0.566	14.955
9/20/2013 4:20	152400.001	28.743	0.566	14.954
9/20/2013 4:30	153000.001	28.742	0.566	14.957
9/20/2013 4:40	153600.001	28.742	0.567	14.956
9/20/2013 4:50	154200.001	28.744	0.566	14.953
9/20/2013 5:00	154800.001	28.745	0.565	14.952
9/20/2013 5:10	155400.001	28.746	0.565	14.956
9/20/2013 5:20	156000.001	28.745	0.565	14.955
9/20/2013 5:30	156600.001	28.745	0.566	14.956
9/20/2013 5:40	157200.001	28.747	0.565	14.954
9/20/2013 5:50	157800.001	28.746	0.565	14.956
9/20/2013 6:00	158400.001	28.747	0.565	14.952
9/20/2013 6:10	159000.001	28.746	0.565	14.953
9/20/2013 6:20	159600.001	28.747	0.564	14.953
9/20/2013 6:30	160200.001	28.747	0.565	14.954
9/20/2013 6:40	160800.001	28.749	0.564	14.955
9/20/2013 6:50	161400.001	28.747	0.564	14.957
9/20/2013 7:00	162000.001	28.748	0.564	14.956
9/20/2013 7:10	162600.001	28.748	0.564	14.957
9/20/2013 7:20	163200.001	28.75	0.563	14.955
9/20/2013 7:30	163800.001	28.751	0.563	14.956
9/20/2013 7:40	164400.001	28.748	0.564	14.955
9/20/2013 7:50	165000.001	28.749	0.564	14.957
9/20/2013 8:00	165600.001	28.748	0.564	14.957
9/20/2013 8:10	166200.001	28.749	0.564	14.957
9/20/2013 8:20	166800.001	28.748	0.564	14.955
9/20/2013 8:30	167400.001	28.749	0.564	14.958
9/20/2013 8:40	168000.001	28.749	0.563	14.958
9/20/2013 8:50	168600.001	28.751	0.563	14.957
9/20/2013 9:00	169200.001	28.751	0.563	14.958
9/20/2013 9:10	169800.001	28.752	0.562	14.955
9/20/2013 9:20	170400.001	28.75	0.563	14.956
9/20/2013 9:30	171000.001	28.751	0.563	14.954
9/20/2013 9:40	171600.001	28.751	0.563	14.958
9/20/2013 9:50	172200.001	28.75	0.563	14.957
9/20/2013 10:00	172800.001	28.752	0.562	14.955
9/20/2013 10:10	173400.001	28.751	0.563	14.958
9/20/2013 10:20	174000.001	28.752	0.562	14.958
9/20/2013 10:30	174600.001	28.752	0.562	14.957
9/20/2013 10:40	175200.001	28.753	0.562	14.955
9/20/2013 10:50	175800.001	28.752	0.562	14.955

9/20/2013 11:00	176400.001	28.752	0.562	14.954
9/20/2013 11:10	177000.001	28.75	0.563	14.952
9/20/2013 11:20	177600.001	28.752	0.562	14.957
9/20/2013 11:30	178200.001	28.751	0.563	14.957
9/20/2013 11:40	178800.001	28.751	0.563	14.957
9/20/2013 11:50	179400.001	28.75	0.563	14.957
9/20/2013 12:00	180000.001	28.751	0.563	14.957
9/20/2013 12:10	180600.001	28.752	0.562	14.956
9/20/2013 12:20	181200.001	28.752	0.562	14.957
9/20/2013 12:30	181800.001	28.752	0.562	14.954
9/20/2013 12:40	182400.001	28.753	0.562	14.957
9/20/2013 12:50	183000.001	28.753	0.562	14.956
9/20/2013 13:00	183600.001	28.752	0.562	14.957
9/20/2013 13:10	184200.001	28.751	0.563	14.954
9/20/2013 13:20	184800.001	28.75	0.563	14.955
9/20/2013 13:30	185400.001	28.75	0.563	14.954
9/20/2013 13:40	186000.001	28.751	0.563	14.957
9/20/2013 13:50	186600.001	28.755	0.561	15.011

Log Configuration

Log Name MW-3
 Scheduled Start Time 9/18/2013 10:00:00 AM Eastern Daylight Time
 Scheduled Stop Time 9/20/2013 2:00:00 PM Eastern Daylight Time
 Type Linear
 Duration Days: 2 hrs: 04 mins: 00 secs: 00
 Interval Days: 0 hrs: 00 mins: 15 secs: 00

Other Log Settings

Pressure Offset: 0.449089 (PSI)
 Depth of Probe: 0.00661923 (ft)
 Head Pressure: 0.00286674 (PSI)
 Temperature: 21.6099 (C)

Log Notes:

Date and Time	Note
9/17/2013 10:32	Used Battery: 22% Used Memory: 1% User Name: JCooper
10/8/2013 8:30	Post correction
(null)	Level Measurement Mode: Level Depth To Water
(null)	Specific gravity: 0.999
(null)	Level Reference Mode: Using data point at 9/20/2013 1:30:00 PM
(null)	Level reference: 23.24 feet
(null)	User Name: JCooper

Log Data:

Record Count 208

Sensors

1
 1 164124 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Sensor: Pres(G) 35ft SN#: 164124 Level Depth To Water (ft)	Sensor: Pres(G) 35ft SN#: 164124 Pressure (PSI)	Sensor: Pres(G) 35ft SN#: 164124 Temperature (C)
9/18/2013 10:00	0	23.197	1.591	16.351
9/18/2013 10:15	900.001	23.203	1.589	16.336
9/18/2013 10:30	1800.001	23.202	1.589	16.33
9/18/2013 10:45	2700.001	23.202	1.589	16.328
9/18/2013 11:00	3600.001	23.204	1.588	16.328
9/18/2013 11:15	4500.001	23.205	1.588	16.324
9/18/2013 11:30	5400.001	23.206	1.587	16.325
9/18/2013 11:45	6300.001	23.204	1.588	16.324
9/18/2013 12:00	7200.001	23.202	1.589	16.323
9/18/2013 12:15	8100.001	23.202	1.589	16.322
9/18/2013 12:30	9000.001	23.201	1.59	16.322
9/18/2013 12:45	9900.001	23.2	1.59	16.323
9/18/2013 13:00	10800.001	23.203	1.589	16.321
9/18/2013 13:15	11700.001	23.203	1.589	16.323
9/18/2013 13:30	12600.001	23.204	1.588	16.326
9/18/2013 13:45	13500.001	23.201	1.59	16.321
9/18/2013 14:00	14400.001	23.201	1.589	16.324

9/18/2013 14:15	15300.001	23.205	1.588	16.324
9/18/2013 14:30	16200.001	23.203	1.589	16.324
9/18/2013 14:45	17100.001	23.203	1.589	16.327
9/18/2013 15:00	18000.001	23.202	1.589	16.323
9/18/2013 15:15	18900.001	23.203	1.589	16.325
9/18/2013 15:30	19800.001	23.201	1.59	16.325
9/18/2013 15:45	20700.001	23.203	1.589	16.328
9/18/2013 16:00	21600.001	23.202	1.589	16.329
9/18/2013 16:15	22500.001	23.205	1.588	16.329
9/18/2013 16:30	23400.001	23.205	1.588	16.33
9/18/2013 16:45	24300.001	23.205	1.588	16.329
9/18/2013 17:00	25200.001	23.205	1.588	16.331
9/18/2013 17:15	26100.001	23.206	1.587	16.33
9/18/2013 17:30	27000.001	23.207	1.587	16.332
9/18/2013 17:45	27900.001	23.205	1.588	16.327
9/18/2013 18:00	28800.001	23.206	1.587	16.329
9/18/2013 18:15	29700.001	23.209	1.586	16.327
9/18/2013 18:30	30600.001	23.208	1.587	16.33
9/18/2013 18:45	31500.001	23.206	1.588	16.328
9/18/2013 19:00	32400.001	23.208	1.587	16.325
9/18/2013 19:15	33300.001	23.208	1.587	16.328
9/18/2013 19:30	34200.001	23.208	1.587	16.329
9/18/2013 19:45	35100.001	23.21	1.586	16.328
9/18/2013 20:00	36000.001	23.211	1.585	16.329
9/18/2013 20:15	36900.001	23.209	1.586	16.331
9/18/2013 20:30	37800.001	23.21	1.586	16.333
9/18/2013 20:45	38700.001	23.211	1.585	16.331
9/18/2013 21:00	39600.001	23.209	1.586	16.328
9/18/2013 21:15	40500.001	23.213	1.585	16.328
9/18/2013 21:30	41400.001	23.211	1.585	16.33
9/18/2013 21:45	42300.001	23.209	1.586	16.33
9/18/2013 22:00	43200.001	23.212	1.585	16.33
9/18/2013 22:15	44100.001	23.212	1.585	16.331
9/18/2013 22:30	45000.001	23.211	1.585	16.329
9/18/2013 22:45	45900.001	23.213	1.585	16.329
9/18/2013 23:00	46800.001	23.213	1.584	16.331
9/18/2013 23:15	47700.001	23.212	1.585	16.328
9/18/2013 23:30	48600.001	23.212	1.585	16.326
9/18/2013 23:45	49500.001	23.211	1.585	16.328
9/19/2013 0:00	50400.001	23.213	1.585	16.326
9/19/2013 0:15	51300.001	23.213	1.584	16.33
9/19/2013 0:30	52200.001	23.216	1.583	16.329
9/19/2013 0:45	53100.001	23.217	1.583	16.334
9/19/2013 1:00	54000.001	23.215	1.584	16.331
9/19/2013 1:15	54900.001	23.216	1.583	16.33
9/19/2013 1:30	55800.001	23.214	1.584	16.327
9/19/2013 1:45	56700.001	23.215	1.584	16.33
9/19/2013 2:00	57600.001	23.215	1.583	16.33
9/19/2013 2:15	58500.001	23.216	1.583	16.325
9/19/2013 2:30	59400.001	23.215	1.583	16.323
9/19/2013 2:45	60300.001	23.215	1.584	16.324
9/19/2013 3:00	61200.001	23.214	1.584	16.324
9/19/2013 3:15	62100.001	23.215	1.583	16.328
9/19/2013 3:30	63000.001	23.214	1.584	16.326
9/19/2013 3:45	63900.001	23.217	1.583	16.324

9/19/2013 4:00	64800.001	23.214	1.584	16.326
9/19/2013 4:15	65700.001	23.217	1.583	16.326
9/19/2013 4:30	66600.001	23.215	1.584	16.335
9/19/2013 4:45	67500.001	23.217	1.583	16.334
9/19/2013 5:00	68400.001	23.217	1.583	16.33
9/19/2013 5:15	69300.001	23.217	1.583	16.328
9/19/2013 5:30	70200.001	23.219	1.582	16.331
9/19/2013 5:45	71100.001	23.22	1.582	16.332
9/19/2013 6:00	72000.001	23.221	1.581	16.338
9/19/2013 6:15	72900.001	23.218	1.582	16.335
9/19/2013 6:30	73800.001	23.218	1.582	16.332
9/19/2013 6:45	74700.001	23.22	1.582	16.333
9/19/2013 7:00	75600.001	23.22	1.581	16.334
9/19/2013 7:15	76500.001	23.221	1.581	16.333
9/19/2013 7:30	77400.001	23.221	1.581	16.33
9/19/2013 7:45	78300.001	23.221	1.581	16.327
9/19/2013 8:00	79200.001	23.22	1.581	16.33
9/19/2013 8:15	80100.001	23.22	1.581	16.33
9/19/2013 8:30	81000.001	23.221	1.581	16.326
9/19/2013 8:45	81900.001	23.222	1.581	16.328
9/19/2013 9:00	82800.001	23.223	1.58	16.332
9/19/2013 9:15	83700.001	23.221	1.581	16.33
9/19/2013 9:30	84600.001	23.222	1.581	16.33
9/19/2013 9:45	85500.001	23.224	1.58	16.331
9/19/2013 10:00	86400.001	23.223	1.58	16.332
9/19/2013 10:15	87300.001	23.223	1.58	16.33
9/19/2013 10:30	88200.001	23.221	1.581	16.328
9/19/2013 10:45	89100.001	23.222	1.58	16.328
9/19/2013 11:00	90000.001	23.221	1.581	16.321
9/19/2013 11:15	90900.001	23.221	1.581	16.321
9/19/2013 11:30	91800.001	23.219	1.582	16.325
9/19/2013 11:45	92700.001	23.221	1.581	16.323
9/19/2013 12:00	93600.001	23.223	1.58	16.327
9/19/2013 12:15	94500.001	23.221	1.581	16.327
9/19/2013 12:30	95400.001	23.222	1.581	16.331
9/19/2013 12:45	96300.001	23.223	1.58	16.328
9/19/2013 13:00	97200.001	23.223	1.58	16.33
9/19/2013 13:15	98100.001	23.224	1.58	16.326
9/19/2013 13:30	99000.001	23.222	1.58	16.324
9/19/2013 13:45	99900.001	23.223	1.58	16.328
9/19/2013 14:00	100800.001	23.222	1.581	16.322
9/19/2013 14:15	101700.001	23.223	1.58	16.321
9/19/2013 14:30	102600.001	23.221	1.581	16.324
9/19/2013 14:45	103500.001	23.221	1.581	16.323
9/19/2013 15:00	104400.001	23.224	1.58	16.325
9/19/2013 15:15	105300.001	23.223	1.58	16.326
9/19/2013 15:30	106200.001	23.223	1.58	16.327
9/19/2013 15:45	107100.001	23.222	1.581	16.328
9/19/2013 16:00	108000.001	23.224	1.58	16.328
9/19/2013 16:15	108900.001	23.223	1.58	16.326
9/19/2013 16:30	109800.001	23.225	1.579	16.33
9/19/2013 16:45	110700.001	23.226	1.579	16.331
9/19/2013 17:00	111600.001	23.226	1.579	16.328
9/19/2013 17:15	112500.001	23.225	1.579	16.33
9/19/2013 17:30	113400.001	23.228	1.578	16.331

9/19/2013 17:45	114300.001	23.227	1.578	16.335
9/19/2013 18:00	115200.001	23.228	1.578	16.332
9/19/2013 18:15	116100.001	23.229	1.578	16.333
9/19/2013 18:30	117000.001	23.23	1.577	16.337
9/19/2013 18:45	117900.001	23.227	1.578	16.335
9/19/2013 19:00	118800.001	23.227	1.578	16.333
9/19/2013 19:15	119700.001	23.229	1.577	16.33
9/19/2013 19:30	120600.001	23.228	1.578	16.331
9/19/2013 19:45	121500.001	23.23	1.577	16.335
9/19/2013 20:00	122400.001	23.231	1.577	16.338
9/19/2013 20:15	123300.001	23.231	1.577	16.339
9/19/2013 20:30	124200.001	23.231	1.577	16.335
9/19/2013 20:45	125100.001	23.233	1.576	16.337
9/19/2013 21:00	126000.001	23.231	1.577	16.335
9/19/2013 21:15	126900.001	23.231	1.577	16.335
9/19/2013 21:30	127800.001	23.232	1.576	16.332
9/19/2013 21:45	128700.001	23.233	1.576	16.33
9/19/2013 22:00	129600.001	23.232	1.576	16.329
9/19/2013 22:15	130500.001	23.231	1.577	16.328
9/19/2013 22:30	131400.001	23.233	1.576	16.327
9/19/2013 22:45	132300.001	23.232	1.576	16.325
9/19/2013 23:00	133200.001	23.232	1.576	16.328
9/19/2013 23:15	134100.001	23.231	1.576	16.325
9/19/2013 23:30	135000.001	23.23	1.577	16.33
9/19/2013 23:45	135900.001	23.233	1.576	16.327
9/20/2013 0:00	136800.001	23.234	1.575	16.333
9/20/2013 0:15	137700.001	23.234	1.576	16.329
9/20/2013 0:30	138600.001	23.233	1.576	16.33
9/20/2013 0:45	139500.001	23.235	1.575	16.327
9/20/2013 1:00	140400.001	23.235	1.575	16.329
9/20/2013 1:15	141300.001	23.235	1.575	16.33
9/20/2013 1:30	142200.001	23.235	1.575	16.33
9/20/2013 1:45	143100.001	23.235	1.575	16.337
9/20/2013 2:00	144000.001	23.236	1.574	16.339
9/20/2013 2:15	144900.001	23.236	1.574	16.34
9/20/2013 2:30	145800.001	23.236	1.574	16.336
9/20/2013 2:45	146700.001	23.24	1.573	16.335
9/20/2013 3:00	147600.001	23.236	1.575	16.33
9/20/2013 3:15	148500.001	23.237	1.574	16.333
9/20/2013 3:30	149400.001	23.234	1.576	16.325
9/20/2013 3:45	150300.001	23.234	1.575	16.313
9/20/2013 4:00	151200.001	23.237	1.574	16.311
9/20/2013 4:15	152100.001	23.236	1.574	16.312
9/20/2013 4:30	153000.001	23.235	1.575	16.309
9/20/2013 4:45	153900.001	23.236	1.575	16.313
9/20/2013 5:00	154800.001	23.237	1.574	16.317
9/20/2013 5:15	155700.001	23.239	1.573	16.319
9/20/2013 5:30	156600.001	23.238	1.574	16.321
9/20/2013 5:45	157500.001	23.238	1.574	16.319
9/20/2013 6:00	158400.001	23.238	1.573	16.324
9/20/2013 6:15	159300.001	23.239	1.573	16.331
9/20/2013 6:30	160200.001	23.239	1.573	16.334
9/20/2013 6:45	161100.001	23.239	1.573	16.337
9/20/2013 7:00	162000.001	23.238	1.573	16.338
9/20/2013 7:15	162900.001	23.24	1.573	16.331

9/20/2013 7:30	163800.001	23.239	1.573	16.33
9/20/2013 7:45	164700.001	23.237	1.574	16.333
9/20/2013 8:00	165600.001	23.239	1.573	16.325
9/20/2013 8:15	166500.001	23.239	1.573	16.326
9/20/2013 8:30	167400.001	23.237	1.574	16.33
9/20/2013 8:45	168300.001	23.239	1.573	16.325
9/20/2013 9:00	169200.001	23.241	1.572	16.331
9/20/2013 9:15	170100.001	23.241	1.572	16.335
9/20/2013 9:30	171000.001	23.242	1.572	16.332
9/20/2013 9:45	171900.001	23.241	1.572	16.334
9/20/2013 10:00	172800.001	23.242	1.572	16.33
9/20/2013 10:15	173700.001	23.242	1.572	16.328
9/20/2013 10:30	174600.001	23.242	1.572	16.331
9/20/2013 10:45	175500.001	23.244	1.571	16.334
9/20/2013 11:00	176400.001	23.243	1.572	16.327
9/20/2013 11:15	177300.001	23.243	1.571	16.329
9/20/2013 11:30	178200.001	23.243	1.572	16.324
9/20/2013 11:45	179100.001	23.237	1.574	16.324
9/20/2013 12:00	180000.001	23.24	1.573	16.324
9/20/2013 12:15	180900.001	23.242	1.572	16.327
9/20/2013 12:30	181800.001	23.243	1.572	16.329
9/20/2013 12:45	182700.001	23.245	1.57	16.332
9/20/2013 13:00	183600.001	23.242	1.572	16.335
9/20/2013 13:15	184500.001	23.241	1.572	16.327
9/20/2013 13:30	185400.001	23.24	1.573	16.324
9/20/2013 13:45	186300.001	23.24	1.573	16.324

APPENDIX F

Analytical Data and DUSR Reports

**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS
TARGET COMPOUND LIST (TCL) SEMIVOLATILES BY GC/MS
TARGET COMPOUND LIST (TCL) PESTICIDES BY GC
PCBs BY GC
TARGET ANALYTE LIST (TAL) BY ICP/CV**

**For Soil and Groundwater Samples Collected
April 22, 2013-April 25, 2013, May 14, 2013, September 18, 2013 and
October 06, 2013-October 10, 2013
From 180 Falmouth Avenue, New Hyde Park, NY
Former Zoe Chemical Site
Collected by CA Rich Consultants**

**SAMPLE DELIVERY GROUP NUMBERS:
JB35522, JB37099, JB48020, JB49685, JB50005
BY ACCUTEST LABORATORIES (ELAP #10983)
(Dayton, New Jersey and Marlborough, MA)**

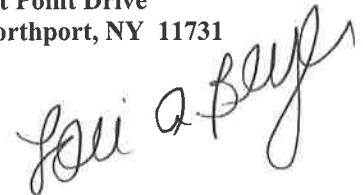
SUBMITTED TO:

**Ms. Jessica Proscia
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803**

January 28, 2014

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**



Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Soil and Groundwater Samples; April 2013 through October 2013 Sampling Events

Data Usability Summary Report (Data Validation): TCL Volatiles, TCL Semivolatiles, TCL Pesticides, PCBs and TAL Metals.

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1.5	Blank Contamination
1.6	GC/MS Instrument Performance Check (Tuning)
1.7	Initial and Continuing Calibrations
1.8	Internal Standards
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1.12	Overall System Performance
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2.7	Initial and Continuing Calibrations
2.8	Internal Standards
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APPENDICES:

- A. Chain of Custody Documents
- B. Case Narratives
- C. Data Summary Form Is with Qualifications

Introduction:

A validation was performed on soil and groundwater samples and the associated quality control samples for organic/inorganic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized on the following sample summary pages submitted by Accutest. The samples were collected from April 2013 through October 2013 and are detailed on the chain of custody documents.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics, Semivolatile Organics, Pesticides, PCBs and TAL (23) Metals. Field Blanks were analyzed for full suite VOA, SVOA, Pesticides, PCBs and TAL Metals. Trip Blanks were analyzed for VOA. Site specific Matrix Spike/Matrix Spike Duplicates were collected and designated for analysis as well as Field Duplicates.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review (October 2006) and EPA Region II SOPs for 8260, 8270, 8081, 8082 and Metals (August 2008 with 2009 updates) and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.



Sample Summary

C. A. Rich Consultants

Job No: JB35522

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB35522-1	04/22/13	12:55 JP	04/27/13	SO	Soil	SB-1(0-2 FT)
JB35522-2	04/22/13	13:23 JP	04/27/13	SO	Soil	SB-2(0-2 FT)
JB35522-2D	04/22/13	13:27 JP	04/27/13	SO	Soil Dup/MSD	SB-2 MSD(0-2 FT)
JB35522-2S	04/22/13	13:24 JP	04/27/13	SO	Soil Matrix Spike	SB-2 MS(0-2 FT)
JB35522-3	04/22/13	13:45 JP	04/27/13	SO	Soil	SB-3(0-2 FT)
JB35522-4	04/22/13	14:20 JP	04/27/13	SO	Soil	SB-4(0-2 FT)
JB35522-5	04/22/13	15:00 JP	04/27/13	SO	Soil	SB-5(0-2 FT)
JB35522-6	04/25/13	09:15 JP	04/27/13	SO	Soil	SB-6(8-9 FT)
JB35522-7	04/25/13	09:30 JP	04/27/13	SO	Soil	SB-6(10-11 FT)
JB35522-8	04/22/13	00:00 JP	04/27/13	SO	Soil	SB-X SB-5 (0-2 FT)
JB35522-9	04/25/13	09:30 JP	04/27/13	AQ	Trip Blank Soil	TRIP BLANK
JB35522-10	04/23/13	11:55 JP	04/27/13	SO	Soil	SD-1 (1-2 FT)
JB35522-11	04/23/13	12:45 JP	04/27/13	SO	Soil	SD-2 (3-4 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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11/10/14



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB35522

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
JB35522-12	04/23/13	14:00 JP	04/27/13	AQ Field Blank Soil	FIELD BLANK
JB35522-13	04/25/13	08:22 JP	04/27/13	SO Soil	S1 (7 FT)
JB35522-14	04/25/13	08:30 JP	04/27/13	SO Soil	S2 (5 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

C. A. Rich Consultants

Job No: JB37099

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB37099-1	05/14/13	10:43 JP	05/15/13	AQ	Ground Water	MW-1
JB37099-1D	05/14/13	10:56 JP	05/15/13	AQ	Water Dup/MSD	MW-1
JB37099-1DF	05/14/13	10:56 JP	05/15/13	AQ	Water Dup/MSD	MW-1
JB37099-1F	05/14/13	10:43 JP	05/15/13	AQ	Groundwater Filtered	MW-1
JB37099-1S	05/14/13	10:47 JP	05/15/13	AQ	Water Matrix Spike	MW-1
JB37099-1SF	05/14/13	10:47 JP	05/15/13	AQ	Water Matrix Spike	MW-1
JB37099-2	05/14/13	13:20 JP	05/15/13	AQ	Ground Water	MW-2
JB37099-2F	05/14/13	13:20 JP	05/15/13	AQ	Groundwater Filtered	MW-2
JB37099-3	05/14/13	14:58 JP	05/15/13	AQ	Ground Water	MW-3
JB37099-3F	05/14/13	14:58 JP	05/15/13	AQ	Groundwater Filtered	MW-3
JB37099-4	05/14/13	15:57 JP	05/15/13	AQ	Ground Water	MW-4
JB37099-5	05/14/13	00:00 JP	05/15/13	AQ	Ground Water	MW-X
JB37099-5F	05/14/13	00:00 JP	05/15/13	AQ	Groundwater Filtered	MW-X

MW-3

MW-3

ZAP
11/10/14



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB37099

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB37099-6	05/14/13	17:00 JP	05/15/13	AQ	Field Blank Water	FIELD BLANK 5/14/13
JB37099-6F	05/14/13	17:00 JP	05/15/13	AQ	Field Blank Filtered	FIELD BLANK 5/14/13
JB37099-7	05/14/13	17:00 JP	05/15/13	AQ	Trip Blank Water	TRIP BLANK



Sample Summary

C. A. Rich Consultants

Job No: JB48020

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
JB48020-1	09/18/13	09:00 JP	09/20/13	SO Soil	ISB-1 (0-2 FT)
JB48020-2	09/18/13	10:20 JP	09/20/13	SO Soil	ISB-2 (0-2 FT)
JB48020-3	09/18/13	13:05 JP	09/20/13	SO Soil	SSB (5-8 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

C. A. Rich Consultants

Job No: JB49685

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB49685-1	10/06/13	10:37 JP	10/09/13	AQ	Ground Water	DGB-1 (85FT)
JB49685-2	10/06/13	10:56 JP	10/09/13	AQ	Ground Water	DGB-1 (80FT)
JB49685-3	10/06/13	11:07 JP	10/09/13	AQ	Ground Water	DGB-1 (70FT)
JB49685-4	10/06/13	11:41 JP	10/09/13	AQ	Ground Water	DGB-1 (60FT)
JB49685-5	10/06/13	11:47 JP	10/09/13	AQ	Ground Water	DGB-1 (50FT)
JB49685-6	10/06/13	11:55 JP	10/09/13	AQ	Ground Water	DGB-1 (40FT)
JB49685-7	10/06/13	12:19 JP	10/09/13	AQ	Ground Water	DGB-1 (30FT)
JB49685-7D	10/06/13	12:19 JP	10/09/13	AQ	Water Dup/MSD	DGB-1 (30FT)
JB49685-7F	10/06/13	12:19 JP	10/09/13	AQ	Groundwater Filtered	DGB-1 (30FT)
JB49685-7S	10/06/13	12:19 JP	10/09/13	AQ	Water Matrix Spike	DGB-1 (30FT)
JB49685-8	10/07/13	10:03 JP	10/09/13	AQ	Ground Water	DGB-2 (85FT)
JB49685-9	10/07/13	10:18 JP	10/09/13	AQ	Ground Water	DGB-2 (80FT)
JB49685-10	10/07/13	10:32 JP	10/09/13	AQ	Ground Water	DGB-2 (70FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB49685

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB49685-11	10/07/13	10:48 JP	10/09/13	AQ	Ground Water	DGB-2 (60FT)
JB49685-12	10/07/13	11:01 JP	10/09/13	AQ	Ground Water	DGB-2 (50FT)
JB49685-13	10/07/13	11:17 JP	10/09/13	AQ	Ground Water	DGB-2 (40FT)
JB49685-14	10/07/13	11:53 JP	10/09/13	AQ	Ground Water	DGB-2 (30FT)
JB49685-14F	10/07/13	11:53 JP	10/09/13	AQ	Groundwater Filtered	DGB-2 (30FT)
JB49685-15	10/08/13	08:59 JP	10/09/13	AQ	Ground Water	DGB-3 (55FT)
JB49685-16	10/08/13	09:09 JP	10/09/13	AQ	Ground Water	DGB-3 (45FT)
JB49685-17	10/08/13	10:12 JP	10/09/13	AQ	Ground Water	DGB-3 (35FT)
JB49685-17D	10/08/13	10:12 JP	10/09/13	AQ	Water Dup/MSD	DGB-3 (35FT)
JB49685-17F	10/08/13	10:12 JP	10/09/13	AQ	Groundwater Filtered	DGB-3 (35FT)
JB49685-17FD	10/08/13	10:12 JP	10/09/13	AQ	Water Dup/MSD	DGB-3 (35FT)
JB49685-17FS	10/08/13	10:12 JP	10/09/13	AQ	Water Matrix Spike	DGB-3 (35FT)
JB49685-17S	10/08/13	10:12 JP	10/09/13	AQ	Water Matrix Spike	DGB-3 (35FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB49685

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB49685-18	10/08/13	00:00 JP	10/09/13	AQ	Ground Water	DGB-X (DGB-2) 30 Ft.
JB49685-18F	10/08/13	00:00 JP	10/09/13	AQ	Groundwater Filtered	DGB-X (DGB-2) 30 Ft.
JB49685-19	10/08/13	12:00 JP	10/09/13	AQ	Ground Water	SGB-1
JB49685-19F	10/08/13	12:00 JP	10/09/13	AQ	Groundwater Filtered	SGB-1
JB49685-20	10/08/13	11:22 JP	10/09/13	SO	Soil	SGB-1 SOIL (10-12FT)
JB49685-21	10/08/13	13:00 JP	10/09/13	AQ	Field Blank Water	FIELD BLANK 10/8/13
JB49685-21F	10/08/13	13:00 JP	10/09/13	AQ	Field Blank Filtered	FIELD BLANK 10/8/13
JB49685-22	10/08/13	13:00 JP	10/09/13	AQ	Trip Blank Water	TRIP BLANK

JAP 11/10/14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

C. A. Rich Consultants

Job No: JB50005

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB50005-1	10/09/13	09:46 JP	10/11/13	AQ	Ground Water	DGB-4 (55 FT)
JB50005-2	10/09/13	09:55 JP	10/11/13	AQ	Ground Water	DGB-4 (45 FT)
JB50005-3	10/09/13	10:30 JP	10/11/13	AQ	Ground Water	DGB-4 (35 FT)
JB50005-4	10/09/13	13:00 JP	10/11/13	AQ	Ground Water	SGB-2 (30 FT)
JB50005-4F	10/09/13	13:00 JP	10/11/13	AQ	Groundwater Filtered	SGB-2 (30 FT)
JB50005-5	10/10/13	09:11 JP	10/11/13	AQ	Ground Water	DGB-5 (85 FT)
JB50005-6	10/10/13	09:22 JP	10/11/13	AQ	Ground Water	DGB-5 (80 FT)
JB50005-7	10/10/13	09:45 JP	10/11/13	AQ	Ground Water	DGB-5 (70 FT)
JB50005-8	10/10/13	10:15 JP	10/11/13	AQ	Ground Water	DGB-5 (60 FT)
JB50005-9	10/10/13	10:20 JP	10/11/13	AQ	Ground Water	DGB-5 (50 FT)
JB50005-10	10/10/13	10:30 JP	10/11/13	AQ	Ground Water	DGB-5 (40 FT)
JB50005-11	10/10/13	10:45 JP	10/11/13	AQ	Ground Water	DGB-5 (30 FT)
JB50005-11D	10/10/13	11:15 JP	10/11/13	AQ	Water Dup/MSD	DGB-5 MSD (30 FT)



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB50005

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB50005-11S	10/10/13	11:00 JP	10/11/13	AQ	Water Matrix Spike	DGB-5 MS (30 FT)
JB50005-12	10/10/13	00:00 JP	10/11/13	AQ	Ground Water	DGB-XX (DGB-4) 35 FT.
JB50005-13	10/09/13	13:30 JP	10/11/13	AQ	Field Blank Water	FIELD BLANK 10/9/13
JB50005-14	10/10/13	11:15 JP	10/11/13	AQ	Trip Blank Water	TRIP BLANK

10/11/14

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

D - Analyte concentration obtained from dilution

Sample Receipt:

The Chain of Custody documents indicates that the samples were received at Accutest Laboratories via laboratory courier upon completion of the sampling events. Sample login notes were generated. The cooler temperature for all sample receipts were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document in addition to the case narratives provided in Appendix A and B of this report.

Limited volume was available for 8270 analysis of MW-4. The laboratory utilized reduced volume for sample preparation and as a result, elevated reporting limits are presented.

Semivolatile analysis was performed at the Massachusetts laboratory for groundwater samples collected in May 2013.

Groundwater samples collected on October 6-October 7, 2013 were not preserved immediately upon collection and were preserved upon receipt at the laboratory on October 09, 2013. No qualifications were applied based on this deviation.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of analytes discussed in the corresponding sections of this report within the following text:

**Note: all results have been rejected, "R" for SB-5 (0-2 ft.). This sample was collected as a field duplicate as SB-X. The results for SB-X must be utilized by the end user. See discussion on field duplicates below.*

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to these SDGs were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis with the exception of SD-2 (304 ft.) which was analyzed one day outside holding time due to a laboratory scheduling error. All results have been qualified, "J/UJ."

Also the narrative documents that SB-X was initially analyzed within holding time, however, the data was not submitted in the final lab report. Review of the injection logs indicate this sample was initially analyzed on 05/01/13 with a notation that there the sample was "not loaded." The reanalysis that was submitted by the laboratory as the initial data set was reviewed and was analyzed at high level 3 days beyond holding time. Since holding time was not grossly exceeded all results must be considered estimated, biased low, "J/UJ."

DBG-2 (40 ft.) and DGB-2 (30 ft.) were initially analyzed within holding time. Reanalysis was performed one day outside holding time for 1,4-Dioxane. Non-detects for this compound have been qualified, "UJ."

No additional data validation qualifiers were required based upon holding time.

The volatile analyst is required to determine pH prior to analysis. Both DGB-1 (40 ft.) and DGB-1 (80 ft.) were determined to have a pH value of 6. Analysis was conducted within 12 days from collection. No qualifications were applied based on this deviation.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to these SDGs with the following exceptions:

S1 (7 ft.) – due to complicated matrix this sample was analyzed at high level (reporting limits have been adjusted accordingly). Late eluting compounds resulted in high BFB recovery in initial analysis. This sample was reanalyzed at a diluted and with reduced matrix interferences, acceptable recovery values were obtained. The reported concentrations of toluene, ethylbenzene, xylenes and isopropylbenzene must be considered estimated, “J.”

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific soil MS/MSD was performed by the laboratory on samples SB-2 (0-2 ft.). All spike recovery and RPD met QC requirements. SB-4 (0-2 ft.) MS/MSD resulted in 1% recovery for 1,1,2,2-Tetrachloroethane. As a result, the non-detect values in the parent sample SB-4 (0-2 ft.) have been rejected, “R” and must be considered unreliable. Additionally, the MS recovery for Trichloroethene recovered high (151%) in this MS/MSD pair. Since this compound was not detected in the parent sample, no qualifications were applied. High level SB-1 (0-2 ft.) MS/MSD resulted in high (127%) methylene chloride recovery in the MSD. This analyte was not detected in the associated sample (S1 7ft.) and therefore no qualifications to the data were required.

Aqueous MS/MSD was performed on MW-1. Spike recovery and RPD values fell within acceptance limits.

MS/MSD was performed on ISB-2 (0-2 ft.). Recovery and RPD met QC requirements.

Groundwater MS/MSD was also performed on DGB-1 (30 ft.) and DGB-3 (35 ft.). All recovery and RPD met QC requirements.

Groundwater MS/MSD was conducted on DGB-5 (30 ft.). All recovery and RPD met QC requirements.

Based on professional judgment, where the laboratory submitted batch MS/MSD, no qualifications to the data were made for non-site specific QC.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each sequence. Recovery values were acceptable with the exception of Benzene (applicable samples SB-1 0-2 ft.), SB-2 (0-2 ft.), SB-3 (0-2 ft.) and S2 (5 ft.) and Methylene Chloride (applicable samples Field Blank) which recovered high. Since these analytes were not detected in associated field samples, no potential loss of detection was observed and therefore no qualifications were applied.

The blank spike applicable to groundwater samples collected on 05/15/13 was determined to contain Methyl Acetate recovery greater than the upper limit. This compound was not detected in associated samples and therefore no qualifications to the data were required.

Blank spike applicable to ISB-2 (0-2 ft.) resulted in high Freon 113. This compound was not detected in the associated sample and therefore no qualifications to the data are required.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but $\leq 10\times$ blank value	Sample Conc. is <CRQL and $\leq 10\times$ blank value	Sample Conc. is >CRQL and $>10\times$ blank value
Other Contaminants	Sample Conc. Is >CRQL, but $\leq 5\times$ blank value	Sample Conc. Is <CRQL and $\leq 5\times$ blank value	Sample Conc. is >CRQL and $>5\times$ blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

The method blank associated with samples SB-1 (0-2 ft.), SB-2 (0-2 ft.), SB-3 (0-2 ft.) and S2 (5 ft.) was determined to contain methylene chloride at 2.3 ug/kg. The laboratory reported concentrations were negated due to laboratory contamination in these samples.

B) Field Blank Contamination:

Target analytes were not detected in the Field blank collected on 4/23/13 associated with soil samples.

Target analytes were not detected in the Field blank collected on 5/14/13 and 10/09/13 associated with groundwater samples.

Target analytes were not detected in the Field blank collected on 10/08/13 associated with soil sample SGB-1 soil (10-12 ft.) and the deep groundwater samples.

C) Trip Blank Contamination:

Target analytes were not detected in the Trip blank associated with soil samples collected 4/25/13.

Target analytes were not detected in the Trip blank associated with groundwater samples collected 5/14/13 and 10/08/13.

Target analytes were not detected in the Trip blank collected on 10/08/13 associated with soil sample SGB-1 soil (10-12 ft.) and the deep groundwater samples.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for these SDGs.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial and continuing calibrations for all reported TCL analytes with the following exceptions:

Soils: April 2013

ICAL:

GCMS1C – 05/06/13 – MEK

GCMS3C – 04/02/13 – Acetone, MEK

GCMSY – 04/02/13 – Acetone, MEK

CCAL:

GCMS1C – 05/07/13 – MEK

GCMS1C – 05/08/13 – MEK

GCMS3C – 04/30/13 – Acetone, MEK

GCMS3C – 05/02/13 – Acetone, MEK

GCMS3C – 05/02/13 – Acetone, MEK

GCMSC – 05/09/13 – MEK

GCMSY – 05/09/13 – Acetone, MEK

GCMSY – 05/10/13 – Acetone, MEK

Non-detects in associated samples have been rejected, "R."

The laboratory reported concentration of 13 ug/kg in SB-4 (0-2 ft.) and 14.2 ug/kg in SB-5 (0-2 ft.) and 31.8 ug/kg SD-1 (1-2 ft.) must be considered estimated, "J."

Groundwaters: May 2013

None

Soils: Sept 2013

GCMSE - 08/28/13 – Acetone. Non-detects in SSB (5-8 ft.) have been rejected, "R."

GCMSV – 07/31/13 – Acetone, MEK. Non-detects in ISB-2 (0-2 ft.) have been rejected, "R."

GCMSV – 09/24/13 – Acetone; Non-detects in ISB-2 (0-2 ft.) were previously rejected, “R” due to ICAL.

GCMSX – 09/16/13 – Acetone, MEK. Non-detects in ISB-1 (0-2 ft.) have been rejected, “R.”

Deep Groundwaters/SGB-1 soil (10-12 ft.) – October 2013:

GCMSX – 10/11/13 and 10/22/13; Acetone and MEK. Laboratory reported concentrations in SGB-1 soil (10-12 ft.) must be considered estimated, “J.”

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, “J” and non-detects are flagged “UJ”. If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, “R”, unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, “J”. In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, “J” in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all compounds with the exception of the continuing calibration on 05/08/13 applicable to SB-6 (8-9 ft.) and SD-2 (3-4 ft.) for 4-methyl-2-pentanone and MEK. Results must be considered estimated, “J/UJ” for these samples.

Acetone and Methyl Acetate also exceeded calibration criteria on 05/18/13. Results for MW-4, MW-X, Field Blank 5/14/13 and Trip Blank 5/14/13 must be considered estimated, "UJ."

Methyl Acetate and 4-Methyl-2-Pentanone also exceeded criteria on 05/20/13 applicable to MW-1, MW-2, MW-3 and MW-4. Results have been qualified, "UJ" as required.

Acetone and Methyl Acetate exceeded criteria on 5/21/13. Results for MW-X must be considered estimated, "UJ."

Acetone exceeded criteria on 10/01/13. Results for applicable sample SSB (5-8 ft.) were previously rejected, "R" due to low ICAL response. No additional qualifiers are required.

Bromomethane exceeded criteria on 09/24/13. Results for ISB-2 (0-2 ft.) must be considered estimated, "UJ."

Methyl Acetate and 4-Methyl-2-Pentanone exceeded criteria on 10/02/13. Results for ISB-1 (0-2 ft.) have been qualified, "UJ."

1,1,2,2-Tetrachloroethane exceeded criteria on 10/18/13. Results for the first twelve samples applicable to SDG JB49685 have been qualified, "UJ."

1,4-Dioxane exceeded criteria on 10/22/13. Results for DGB-2 (30 ft.) and DGB-2 (40 ft.) have been qualified, "UJ."

Bromoform exceeded criteria on 10/21/13. DGB-5 (30 ft.), DGC-XX, DGC-5 (40 ft.), DGB-4 (55 ft.), DGB-3 (45 ft.), DGB-4 (35 ft.), SGB-2 (30 ft.), DGB-5 (85 ft.), Field Blank 10/9/13 and Trip Blank 10/10/13 have been qualified, "UJ."

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Chlorobenzene-d5, Fluorobenzene and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with these SDGs.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50% and for water samples 10% is utilized for guidance.

Field Duplicate analysis was collected on the following samples:

SB-X = SB-5 (0-2 ft.): Review of the raw data indicates that there was a misidentification of SB-5 (0-2 ft.) since the sample chromatogram does not resemble the field duplicate. The field duplicate was determined to contain significant target and non-target analytes as evidenced by the sample chromatogram. The semivolatile raw data was reviewed in conjunction with the volatile data and determined that the late eluting hydrocarbon presence observed in SB-X VOA analysis was also observed in the SVOA raw data and therefore the results for SB-5 (0-2 ft.) is unusable and must be rejected. The end user should utilize results from SB-X when making decisions regarding contamination from this sample location.

MW-X = MW-3. Tetrachloroethene was detected at 3.6 ug/L in MW-3 and the field duplicate result is 1.5 ug/L. Due to high %difference both results must be considered estimated, "J." No potential biased can be determined.

DBG-X = DGB-2 (30 ft.). Acceptable precision was observed for detected compounds Tetrachloroethene and 1,1,1-Trichloroethane.

DGB-XX = DGB-4 (35 ft.). A summary of detections are listed below:

Concentration in ug/L:

Analyte	DGB-4 (35 ft.)	DGB-XX
Acetone	14.3	32.5
Benzene	0.7	ND
Carbon Disulfide	ND	0.33
Ethylbenzene	0.97	0.46
Tetrachloroethene	ND	1.9
Toluene	6.7	2.4
m,p-Xylene	1.4	0.89
o-Xylene	0.94	0.42
Xylene (total)	2.4	1.3

Due to high percent difference all analytes above have been qualified, "J/UJ" in both the parent and field duplicate sample.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

SB-6 (8-9 ft.), SB-6 (10-11 ft.), SB-X, SD-2 (3-4 ft.), S1 (7 ft.) and S2 (5 ft.) were analyzed at high level due to target and non-target concentrations. Reporting limits have been adjusted accordingly.

Groundwater samples were initially analyzed undiluted. MW-4 required secondary and tertiary reanalyses at 1:10 and 1:20 dilutions in order to bring Acetone, Chloroethane, 1,1-Dichloroethane, Toluene and 1,1,1-Trichloroethane within the instruments linear calibration range. Results were hybridized on the reporting forms and summary tables to assist the end user which data point must be utilized. Any analyte obtained from diluted analysis has been qualified, "D" as required by NYSDEC.

SSB (5-8 ft.) and SGB-1 Soil (10-12 ft.) were analyzed at high level. Raw data supports the high level analysis based on significant late eluting peaks. Elevated reporting limits have been provided for these analyses.

Methylene Chloride, Acetone and 2-Butanone (MEK) are common laboratory contaminant. In cases where this target analyte was detected in samples, could not be negated due to laboratory or field contamination. The end user should proceed with caution when making decisions based on common laboratory contaminants.

1.11 Overall System Performance

Good resolution and chromatographic performance were observed.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

2.0 Target Compound List (TCL) Semivolatile Organics by GC/MS SW846 Method 8270

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Total Semivolatile results were considered to be valid and usable with exceptions noted within the following text:

****Note: all results have been rejected, "R" for SB-5 (0-2 ft.). This sample was collected as a field duplicate as SB-X. The results for SB-X must be utilized by the end user. See discussion on field duplicates below.***

*****Non-detects for all acid compounds were rejected, "R" in DGB-3 (35 ft.) due to non-recoverable surrogate recovery values and reextraction beyond 2x the holding time.***

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All soil samples were extracted and analyzed within the method required holding times and the technical holding times (14 days from collection to extraction and 40 days from extraction to analysis for soil samples and 7 days from collection to extraction for aqueous samples) required for data validation for initial analysis.

Groundwater DGB-3 (35 ft.) was reextracted 15 days from collection due to non-recoverable surrogate recovery values with initial analysis. Non-detects for all acid compounds have been rejected, "R."

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

All samples were spiked with six (6) surrogate standards at the sample extraction portion of analysis.

Surrogate recovery outliers and associated impact to reported results are summarized below:

**Note the method allows one surrogate per fraction (BN or Acid) to be outside acceptance limits providing recovery values are >10%.*

SB-1 (0-2 ft.) – initial analysis resulted in high Terphenyl-d14 recovery due to documented interference as evidenced by the sample chromatogram. Diluted reanalysis resulted in loss of surrogate recovery. Internal standard outliers were observed and impacted compounds are qualified based on IS recovery.

SB-6 (8-9 ft.) – initial analysis met surrogate recovery requirements. Diluted reanalysis resulted in outliers (1:4 and 1:50) for phthalates. No qualifications are required.

SB-6 (10-11 ft.) - initial analysis met surrogate recovery requirements. Diluted reanalysis resulted in outliers (1:50) for phthalates. No qualifications are required.

SB-X – Initial analysis resulted in high Phenol-d5 and Nitrobenzene-d5 due to interferences in the early portion of the chromatographic run. A diluted reanalysis was performed and with reduced matrix interferences acceptable recovery values were observed. No target detections were found in the early portion of the run and therefore no qualifiers are required for non-detects based on high surrogate recovery data.

DGB-3 (35 ft.) – Groundwater sample resulted in zero acid recovery values. Reextraction outside holding time yielded acceptable surrogate thus concluding an extraction/sample preparation error. Non-detects for acid compounds are unusable.

SGB-1 soil (10-12 ft.) resulted in one (1) high acid recovery and one (1) high base recovery. No laboratory action was required.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Aqueous and Soil MS/MSD analysis was submitted with each extraction batch. Site specific MS/MSD series was performed on SB-2 (0-2 ft.). Several spike recoveries were <10% and the RPD fell outside in house acceptance limits. Specifically, 2,4-Dinitrophenol and 4,6-Dinitro-o-phenol. Non-detects in the parent sample have been rejected, "R" and must be considered unreliable.

Aqueous MS/MSD was performed on MW-1. The RPD for 2,4-Dinitrophenol recovered high at 132% in the MSD. No qualifiers are required since analyte was not detected in the parent sample.

Additionally, Caprolactam recovered low but reasonable per the methodology in the MS and MSD (38%, 37%). Non-detects in MW-1 have been qualified, "UJ."

Groundwater sample DGB-1 (30 ft.) was also selected for MS/MSD analysis. Acceptable recovery and RPD values were observed for all spiked analytes.

Based on professional judgment, no qualifiers were applied for non-site specific MS/MSD analysis submitted with additional extraction batches.

Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch.

The following analytes recovered low but >10% in the LCS applicable to Field Blank 4/23/13:

Acenaphthene (54%), Acetophenone (50%), 1,1'-Diphenyl (55%), 2-Chloronaphthalene (47%), bis (2-Chloroethyl) ether (50%), Dibenzofuran (57%), 2-Methylnaphthalene (43%) and Naphthalene (46%). Non-detects for these compounds have been qualified, "UJ" as required.

The following analytes recovered low but >10% in the LCS applicable to soil samples:

April 2013 event - none

October 2013:

High recovery values were observed for Phenol, acenaphthene, acenaphthylene, anthracene, benzo (b) fluoranthene, 2-chloronaphthalene, bis (2-chloroethoxy)methane, bis (2-chloroisopropyl) ether, 4-chlorophenyl phenyl ether, diethyl phthalate, dimethyl phthalate, fluorene, hexachloroethane, n-nitroso-di-n-propylamine and phenanthrene. Positive detections for these compounds in SGB-1 soil (10-12 ft.) have been qualified, "J" and should be considered biased high.

The following analytes recovered low but >10% in the LCS applicable to groundwater samples:

May 2013 event – none

October 2013 event:

High recovery values were obtained for 2-Nitrophenol, Benzaldehyde and 3,3'-dichlorobenzidine. Analytes were not detected in associated field samples and high recovery does not demonstrate any potential loss of detection.

2.5 Method Blanks

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Phthalates (common laboratory contaminants)	Sample Conc. is >CRQL, but $\leq 10\times$ blank value	Sample Conc. Is <CRQL and $\leq 10\times$ blank value	Sample Conc. is >CRQL and $> 10\times$ blank value
Other Contaminants	Sample Conc. is >CRQL, but $\leq 5\times$ blank value	Sample Conc. Is <CRQL and $\leq 5\times$ blank value	Sample Conc. is >CRQL and $> 5\times$ blank value

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

A) Method Blank Contamination:

The soil extraction blanks applicable to these samples was found to contain bis (2-ethylhexyl) phthalate at 48.3 ug/kg applicable to sample SGB-1 soil (10-12 ft.). The sample concentration for this compound was >10x the blank level and therefore must be considered real. The laboratory did not qualify this compound with the "B" qualifier as required. It has not been added as part of the review process.

The aqueous extraction blanks were also determined to be free of target analyte contamination.

B) Field Blank Contamination:

No target analytes were detected in the field blanks associated with the April and May 2013 sampling event.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatile organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (12 hours) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 30\%$ and %D must be $< 25\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all compounds with the following exceptions:

ICAL 05/14/13 GCMSW – Hexachlorocyclopentadiene (40.4%) and 2,4-Dinitrophenol (30.02%). Non-detects in MW-1 and MW-2 have been qualified, "UJ."

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all compounds with the following exceptions:

**CCAL 5/29/13 GCMS3E – Di-n-octylphthalate and Hexachlorocyclopentadiene.
“UJ” non-detects in SB-6 (8-9 ft.), SB-6 (10-11 ft.) and SD-1 (1-2 ft.)**

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, “J”, and all non-detects as “UJ”, or “R” if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All area responses and retention times fell within established QC ranges with exceptions noted below:

SB-1 (0-2 ft.) – Chrysene recovered low in primary analysis but acceptable with reduced matrix interferences and diluted reanalysis. No target analyte detections were quantitated from this internal standard in primary analysis. No qualifiers are required.

SB-6 (8-9 ft.) – Initial analysis resulted in low 1,4-Dichlorobenzene-d4 and Naphthalene-d8. Significant matrix interferences were observed within this retention time range. All positive detections from initial and secondary analysis have been qualified, “J.” No qualifications are required for tertiary analysis.

SB-6 (10-11 ft.) – Initial analysis resulted in low Naphthalene-d8, Acenaphthene-d10, Chrysene-d12 and Perylene-d12. Diluted reanalysis yielded acceptable IS response. All positive detections in initial analysis have been qualified, “J.”

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50%. Acceptable precision for aqueous samples is 10%.

Field Duplicate analysis was collected on the following samples:

SB-X = SB-5 (0-2 ft.) - Review of the raw data indicates that there was potentially a misidentification of SB-5 (0-2 ft.) since the sample chromatogram does not resemble the field duplicate. The field duplicate was determined to contain significant target and non-target analytes as evidenced by the sample chromatogram. The results for SB-5 (0-2 ft.) is unusable and must be rejected. The end user should utilize results from SB-X when making decisions regarding contamination from this sample location.

MW-X = MW-3; Acceptable precision was observed for detected compound Isophorone.

DGB-X = DGB-2 (30 ft.); Target analytes were not detected in either analysis.

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet criteria for all detected analytes.

Tentatively Identified Compounds (TICs) were not provided by the laboratory and therefore not evaluated.

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported “J” values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Soil samples were analyzed undiluted except where noted below.

SB-1 (0-2ft) – 1:1 and 1:1000. As required by NYSDEC, analytes obtained from diluted analysis have been qualified, “D.”

SB-6 (8-9 ft.) – 1:1, 1:4 and 1:50. As required by NYSDEC, analytes obtained from diluted analysis have been qualified, “D.”

SB-6 (10-11 ft.) – 1:1 and 1:50. As required by NYSDEC, analytes obtained from diluted analysis have been qualified, “D.”

SB-X – 1:1 and 1:4. As required by NYSDEC, analytes obtained from diluted analysis have been qualified, “D.”

SD-1 (1-2 ft.) – 1:1 and 1:2. Extract was reanalyzed due to internal standard responses. Chrysene-d12 recovered low in initial analysis. A diluted reanalysis and reduced matrix interferences (1:2) resulted in acceptable recovery values. The initial data set has been reported by the laboratory in order to achieve the lowest attainable reporting limits. No target analytes were quantitated from this IS and therefore no qualifications to the data are required.

SSB (5-8 ft.) – 1:1 and 1:20. Sample chromatogram shows significant early eluting interferences. As required by NYSDEC, analytes obtained from diluted analysis have been qualified, “D.”

DGB-1 soil (10-12 ft.) was initially analyzed at 1:2 dilution. Raw data supports interferences thus prohibiting an undiluted run. Reporting limits have been elevated accordingly.

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis.

Soil samples collected in April 2013 demonstrated significant matrix interferences.

Groundwater samples from May 2013 were performed by Accutest New England. Limited volume was received for MW-4 and therefore reduced sample volume (400ml) was utilized for extraction. Reporting limits have been adjusted accordingly.

3.0 Target Analyte Pesticides by GC SW846 Method 8081 and PCBs by SW846 Method 8082.

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Pesticide and PCBs results are considered to be valid and usable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times required for data validation (14 days for soil) and seven (7) days for the aqueous samples for extraction. All extracts were analyzed within forty (40) days in accordance with the analytical method requirements.

3.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Pesticides:

Acceptable surrogate recovery values for TCMX and DCB were observed with the following exceptions:

SB-6 (8-9 ft.), SB-X and SD-2 (3-4 ft.) – Initial analysis resulted in interferences. Upon diluted reanalysis surrogates were diluted out. No qualifiers were applied based on surrogate recovery outliers since the percent difference criteria for identification was utilized to qualify data and target analytes were not reported as positive detections for initial analysis.

SSB (5-8 ft.) – Initial analysis resulted in high recoveries as a result of complicated matrix as evidenced by the sample chromatogram. Diluted reanalysis resulted in loss of surrogate due to dilution. Detected/reported analytes were obtained from dilution and therefore based on initial interferences, no data qualifiers are required.

SGB-1 soil (10-12 ft.) – TCMX recovered high on the confirmatory column. Surrogates were diluted out in the reanalysis. Detected analytes were obtained from diluted reanalysis analysis and therefore no qualifications to the data are required.

PCBs:

Acceptable surrogate recovery values for TCMX and DCB with the following exceptions:

SB-6 (8-9 ft.), SB-6 (10-11 ft.) and SD -2 (3-4 ft.) – high recoveries were observed due to matrix interferences. PCBs were not detected (no pattern observed) and therefore no qualifications to the data were made for high recovery values.

SSB (5-7 ft.) – TCMX recovered high on confirmatory column. PCBs were not detected and no qualifiers are required based on this outlier.

3.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data.

Pesticides/PCBs:

Acceptable MS/MSD was performed on SB-2 (0-2 ft.). Acceptable recovery values and RPD were observed.

Aqueous MS/MSD was performed on MW-1. Acceptable recovery and RPD values were obtained.

Aqueous MS/MSD was also performed on DGB-1 (30 ft.). All spiked compounds recovered approximately 200% in the MS and MSD for both pesticides and PCBs. It is suspected that the analyst added the spike solution twice. Since acceptable LCS was obtained, based on professional judgment, no qualifiers to the data were applied based on this deviation.

DGB-2 (85 ft.) was also selected for MS/MSD analysis and acceptable recovery values were obtained for all spiked analytes.

3.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch for Pesticides and PCBs. Recovery values were acceptable and no qualifications were applied.

3.5 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Extraction and Instrument blanks were performed at the appropriate frequency.

Below is a summary of blank contamination:

A) **Method Blank Contamination:**
No target analytes were detected in the associated method blanks and no data validation qualifiers were required based upon method blank data.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

3.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide and PCBs standards. Acceptable DDT and Endrin breakdown percent difference ($< 20\%$) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

%RSD $\leq$ 20% for single component compounds except alpha-BHC and delta-BHC

%RSD $\leq$ 30% for Toxaphene peaks

%RSD $\leq$ 30% for surrogates (TCMX and DCB)

%RSD $<$ 20% for PCB aroclors.

Continuing calibration verifications:

For Pesticide analysis acceptable percent difference for any pesticide is 20% and for PCB analysis, the acceptable limit is 15%.

Acceptable CCV was observed for all analysis.

3.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50%. For aqueous samples, 10% criteria is expected.

Field Duplicate analysis was performed on the following samples:

SB-X = SB-5 (0-2 ft.) - Review of the raw data indicates that there was potentially a misidentification of SB-5 (0-2 ft.) since the sample chromatogram does not resemble the field duplicate. The field duplicate was determined to contain significant target analytes as evidenced by the sample chromatogram. The results for SB-5 (0-2 ft.) is unusable and must be rejected. The end user should utilize results from SB-X when making decisions regarding contamination from this sample location.

MW-X = MW-3 – Target analytes were not detected in either analysis.

DGB-X = DBG-2 (30 ft.) – Target analytes were not detected in either analysis.

3.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards

Positive Pesticide and PCB sample results are compared and where %Difference >25% when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

%Difference	Qualifier
0-25%	None
26-70%	"J"
71-100%	"JN"
101-200% (no interference)	"R"
101-200% (interference detected)*	"JN"
>50% (Pesticide value is <CRQL)**	"U"
>201%	"R"

***When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, "JN"**

**** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify "U", undetected.**

Acceptable % difference was observed for reported analytes with the following exceptions:

SB-1 (0-2 ft.) – Alpha-Chlordane – JN, gamma-Chlordane – R, 4,4'-DDE – J, 4,4'-DDT – J.

SB-2 (0-2 ft.) – 4,4'-DDT – J

SB-4 (0-2 ft.) – 4,4'-DDE – J

SB-6 (8-9 FT.) – alpha-Chlordane – J

SB-6 (10-11 ft.) – alpha-Chlordane - J

SB-X – alpha-Chlordane – J

**SD-1 (1-2 ft.) – alpha-Chlordane – JN, gamma-Chlordane – R,
4,4'-DDE – J and 4,4'-DDT - J**

SD-2 (3-4 ft.) – alpha-Chlordane – J, gamma-Chlordane - JN

ISB-2 (0-2 ft.) – alpha-Chlordane - J

SGB-2 (30 ft.) – alpha-Chlordane - JN

3.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required. Soil results were reported on a dry weight basis as required.

3.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

PCBs were not detected in any analyzed samples and no multi component pattern exists on the raw data.

4.0 TAL (23) Metals by ICP/Cold Vapor SW846 Methods 6010/7471

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The soil and groundwater (total and dissolved) metals results are considered to be valid and usable with the appropriate qualifiers as notated in the following text:

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were digested and analyzed for TAL Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

4.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP and Mercury (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

4.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL.

No qualifications to the data were made based upon blank contamination.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects

Between 30%-74% - results $\geq$ MDL "J" and non-detects "UJ"

Between 126-150% - results $\geq$ MDL "J" and

>150% - results $\geq$ MDL "R"

Soil spike recoveries are qualified based on the criteria below:

<10% - "R" all detects and non-detects

Between 10%-74% - results $\geq$ MDL "J" and non-detects "UJ"

Between 126-200% - results $\geq$ MDL "J" and

>200% - results $\geq$ MDL "R"

MS/MSD analysis was conducted on:

SB-2 (0-2 ft.) – Low antimony recoveries in the MS and MSD (70.6 and 72.5). Non-detects in the parent sample have been qualified, "UJ."

Magnesium also recovered below limits (73.9%) in the MS. Results have been qualified, "J" in the parent sample. Acceptable recoveries were obtained for post digestion spike thus confirming a matrix effect.

MW-1 – All spike recoveries met acceptance criteria for total and dissolved analysis.

DGB-3 (35 ft.) and DGB-2 (30 ft.) - All spike recoveries met acceptance criteria for total and dissolved analysis.

Data was not qualified for samples that non site specific QC was analyzed as part of the digestion batch.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD $\geq 20\%$ but $< 100\%$ - J detected concentrations

RPD $\geq 100\%$ - R all detected and non-detected concentrations

Field Duplicates:

RPD $\geq 35\%$ but $< 120\%$ - qualify sample and duplicate results $\geq$

CRQL "J"

RPD $\geq 120\%$ - rejected sample and duplicate results $\geq$ CRQL "R"

Field Duplicate analysis was collected on the following samples:

SB-X = SB-5 (0-2 ft.). As with the other fractions results do not match the field duplicate and SB-5 results have been rejected, "R" to assist the end user to utilize the results for SB-X from this sampling location. The end user should utilize results from SB-X when making decisions regarding contamination from this sample location.

MW-X = MW-3 – due to high percent different, Aluminum, Chromium, Iron, Lead, Manganese, Nickel and Zinc have been qualified, "J/UJ" in samples MW-3 and MW-X. It is recommended that the higher values be utilized for decision making purposes where the element was detected and reported.

DGB-X = DGB-2 (30 ft.) – Arsenic and Iron have been qualified, "J/UJ". It is recommended that the higher values be utilized for decision making purposes where the element was detected and reported.

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all ICP and Mercury analysis. Associated LCS recoveries were within the acceptable limits for TAL Metals analyses (80-120%).

4.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

4.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilution was performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. The serial dilution analysis agrees within a 10% difference of the original determination after correction for dilution for all elements.

4.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results.

4.10 Overall Assessment of Data

The data generated were of acceptable quality. All analysis was conducted undiluted.

For the TAL Metals analysis results are usable at the concentrations presented in the validated spreadsheets and Form I's. Groundwater samples were analyzed for total and dissolved metals (lab filtered upon receipt).

Reviewer's Signature Louie Blye Date 01/28/14

**Appendix A
Chain of Custody
Documents**



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www.adcathesi.com

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JB35522: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB35522

Client: CA RICH

Project: FORMER ZOE CHEMICAL SITE

Date / Time Received: 4/26/2013 16:50

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (3/3): 0

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

Y or N

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Bar Therm
3. Cooler media: Ice (bag)
4. No, Coolers

Quality Control Preservation

Y

N

N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y N N/A

1. Analysis requested is clear: ☐ ☒
2. Bottles received for unspecified tests: ☒ ☐
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments -12 Only has three EXT bottles, note limited EXT volume. Also there is an unpreserved LF metal bottle. Is this needed?

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JB35522: Chain of Custody

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Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB35522

CSR: Michelle

Response Date: 4/29/2013

Response: -12, proceed w/the 3 EXT volume for all analysis. Dissolved metals are not needed

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JB35522: Chain of Custody
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Client / Reporting Information Company Name: <i>Ca Rich Consultants, Inc</i> Street Address: <i>17 DuPont St</i> City: <i>Plainville NY 11803</i> Project Contact: <i>Jessica Proscia</i> Phone #: <i>(516) 576-8844</i> Sample(s) Name(s): <i>Jessica Proscia / Taran Carter</i>		Project Information Project Name: <i>Former ZOE Chemical</i> Street: <i>1801 Falmouth Rd</i> City: <i>New Hyde Park, NY</i> Billing Information (if different from Report to): Company Name: <i>Same</i> Street Address: <i>Same</i> City: <i>Same</i> State: <i>NY</i> Zip: <i>11803</i> Client Purchase Order # Project Manager Attention:		Requested Analysis (see TEST CODE sheet) <i>TCL VOCs 820C</i> <i>TCL SVOCs 8270</i> <i>Pesticides 8081</i> <i>PCBs 8082</i> <i>TAL Metals total + Dissolved</i> <i>Bla SW 600 + SW 7418</i>		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment CI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe PB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Field ID / Point of Collection Accutest Sample # Field ID / Point of Collection MECH/DI Val # Date Time Sampled By Matrix # of bottles HCl NaOH HNO3 H2SO4 NONE DI Water MECH ENCODE		Turnaround Time (Business days) ☒ Std. 15 Business Days ☐ Std. 10 Business Days (by Contract only) ☐ 10 Day RUSH ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY Emergency & Rush T/A data available Vial blank		Data Deliverable Information ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDO Format ☐ Other Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data		Comments / Special Instructions
Sample Custody must be documented below each time samples change possession, including courier delivery.						
Relinquished by Sampler: Date/Time: <i>5/15/13 10:20</i> Relinquished By: <i>Chris Lail</i>	Relinquished By: Date/Time: Relinquished By:	Relinquished By: Date/Time: Relinquished By:	Relinquished By: Date/Time: Relinquished By:	Relinquished By: Date/Time: Relinquished By:	Relinquished By: Date/Time: Relinquished By:	
Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable On Ice Cooler Temp: <i>4.0°C</i>						

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB37099

Client: CA RICH

Project: FORMER ZOE CHEMICAL

Date / Time Received: 5/15/2013 1310

Delivery Method: Accutest Courier

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1: (4/4); #2: (4/4); 0

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

Y or N

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Bar Therm
3. Cooler media: Ice (Bag)
4. No. Coolers: 2

Quality Control Preservation

Y

N

N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y

N

N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments 1. Sample -4 "MW-4" has limited 8270 volume. (approx 300ml)
2. Samples -2,-3,-5,-6 have 3 EXT bottles; sample -1 has 9

JB37099: Chain of Custody

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Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB37099

CSR: Kevin Dovedytis

Response Date: 5/16/2013

Response: OK to proceed with analysis.

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JB37099: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB48020

Client: _____

Project: _____

Date / Time Received: 9/20/2013

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Initial/Adjusted): #1: (3/3): 0

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐

2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐

4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐

2. Cooler temp verification: IR Gun

3. Cooler media: Ice (Bag)

4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐

2. Trip Blank listed on COC: ☐ ☒ ☐

3. Samples preserved properly: ☒ ☐ ☐

4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐

2. Container labeling complete: ☒ ☐

3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐

2. All containers accounted for: ☒ ☐

3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐

2. Bottles received for unspecified tests: ☐ ☒

3. Sufficient volume recvd for analysis: ☒ ☐

4. Compositing instructions clear: ☐ ☐ ☒

5. Filtering instructions clear: ☐ ☐ ☒

Comments

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JB48020: Chain of Custody

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PAGE 1 OF 2

FED-EX Tracking #	Bulfinch Order Control #
AccuTest Quote #	AccuTest Job # JB49685

[illegible][illegible]

Shipping courier delivery: 1723		Received By: 2	
Date Time: 10/5/13		Received By: 4	
Preserved where applicable: JK		On ice: 2.5, 3.0, 4.0°C	
Initials: IB		Initials: MS	

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JB49685: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB49685 **Client:** CA RICH - NY **Project:** FORMER ZOE CHEMICAL
Date / Time Received: 10/9/2013 17:25 **Delivery Method:** Accutest Courier **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): #1: (2.5/2.5); #2: (3/3); #3: (4/4); 0

Cooler Security
Y or N

1. Custody Seals Present: ☒ Y ☐ N	3. COC Present: ☒ Y ☐ N
2. Custody Seals Intact: ☒ Y ☐ N	4. Smpl Dates/Time OK: ☒ Y ☐ N

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ Y ☐ N	2. Cooler temp verification: IR Gun
3. Cooler media: Ice (Bag)	
4. No. Coolers: 3	

Quality Control Preservation
Y N N/A

1. Trip Blank present / cooler: ☒ Y ☐ N ☐ N/A	2. Trip Blank listed on COC: ☒ Y ☐ N ☐ N/A
3. Samples preserved properly: ☐ Y ☒ N ☐ N/A	4. VOCs headspace free: ☒ Y ☐ N ☐ N/A

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ Y ☐ N	2. Container labeling complete: ☒ Y ☐ N
3. Sample container label / COC agree: ☒ Y ☐ N	

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ Y ☐ N	2. All containers accounted for: ☒ Y ☐ N
3. Condition of sample: Intact	

Sample Integrity - Instructions
Y N N/A

1. Analysis requested is clear: ☒ Y ☐ N	2. Bottles received for unspecified tests: ☐ Y ☒ N
3. Sufficient volume recvd for analysis: ☒ Y ☐ N	4. Compositing instructions clear: ☐ Y ☐ N ☒ N/A
5. Filtering instructions clear: ☐ Y ☐ N	

Comments All Total metals volume rec'd unpreserved. HNO₃ added in SM 10/9/13 @ 1900. Lot # 50770
 all Dissolved metals were filtered in field and preserved.
 -19 & 21 No collection time on COC or labels.



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB49685

CSR: M Cordova

Response Date: 10/14/2013

Response: 19 samles at 12:00
-21 samples at 13:00 per Jesssica Proscia

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JB49685: Chain of Custody
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WTB
WFB
GW

2235 Route 136, Dayton, NJ 08810
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[illegible]

JB50005: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB50005 Client: _____ Project: _____
 Date / Time Received: 10/11/2013 Delivery Method: _____ Airbill #s: _____
 Cooler Temps (Initial/Adjusted): #1: (4/4): 0

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐	
2. Cooler temp verification: _____	
3. Cooler media: _____	Ice (Bag)
4. No. Coolers: _____	1

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐	
2. Trip Blank listed on COC: ☐ ☒ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☒ ☐ ☐	

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐	
2. Container labeling complete: ☒ ☐	
3. Sample container label / COC agree: ☒ ☐	

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐	
2. All containers accounted for: ☒ ☐	
3. Condition of sample: _____	Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐	☒
5. Filtering instructions clear: ☐ ☐	☒

Comments

**Appendix B
Case Narratives**

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** C. A. Rich Consultants**Job No** JB35522**Site:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,**Report Date** 6/10/2013 3:09:00 PM

On 04/27/2013, 12 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB35522 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ	Batch ID: V1C5135

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35073-4MS, JB35073-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Methylene chloride are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 2-Butanone (MEK) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount. *(C BATCH)*

Matrix: AQ	Batch ID: V1C5137

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35365-1MS, JB35365-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, Chloroethane, cis-1,2-Dichloroethene are outside control limits. Probable cause due to matrix interference. *(C BATCH)*

Matrix: SO	Batch ID: V3C4351

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzene are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Matrix: SO	Batch ID: V3C4353

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-4MS, JB35522-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Probable cause due to matrix interference.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO	Batch ID: VC6542

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35475-8MS, JB35475-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB35522-13: confirmation run for surrogate recoveries.

Matrix: SO	Batch ID: VD8512

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35222-1MS, JB35222-1MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for Methylene chloride are outside control limits. Probable cause due to matrix interference.
- JB35522-13 for 4-Bromofluorobenzene: Outside control limits due to matrix interference. Confirmed by reanalysis.

Matrix: SO	Batch ID: VE8920

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35337-1MS, JB35337-1MSD were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-11 Sample analyzed outside the holding time due to scheduling error.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Methylene chloride are outside control limits. Outside control limits due to matrix interference.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Matrix: SO	Batch ID: VY5771

- Sample(s) JB35341-7MS, JB35341-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-8, JB35522-11 Sample analyzed outside the holding time but the original run within holding time.
- JB35522-8: Sample analyzed outside the holding time but the original run within holding time.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Matrix: SO	Batch ID: VY5773

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35702-3MS, JB35702-3MSD were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-11 Sample analyzed outside the holding time due to scheduling error.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ	Batch ID: OP65680

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35238-4MS, JB35238-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acetophenone, bis(2-Chloroethyl)ether, Dibenzofuran, Naphthalene are outside control limits. Outside of in house control limits, but within the marginal exceedance limits.

Matrix: AQ	Batch ID: OP65786

- The data for SW846 8270D meets quality control requirements.
- The following samples were extracted outside of holding time for method SW846 8270D: JB35522-12 Original sample was performed within hold time.
- JB35522-12: Confirmation run.

Matrix: SO	Batch ID: OP65702

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits for sample OP65702-MSD. Probable cause due to matrix interference.
- JB35522-10: Confirmation run for internal standard areas.
- JB35522-1 for Terphenyl-d14: Outside control limits due to matrix interference.
- JB35522-6 for Nitrobenzene-d5: Outside control limits due to matrix interference.
- JB35522-7 for Phenol-d5: Outside control limits due to dilution.
- JB35522-6 for Phenol-d5: Outside control limits due to matrix interference.
- JB35522-8 for Nitrobenzene-d5: Outside control limits due to matrix interference.
- JB35522-8 for Phenol-d5: Outside control limits due to matrix interference.
- JB35522-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JB35522-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JB35522-1 for 2-Fluorophenol: Outside control limits due to dilution.
- JB35522-1 for Nitrobenzene-d5: Outside control limits due to dilution.
- JB35522-1 for Phenol-d5: Outside control limits due to dilution.
- JB35522-1 for Terphenyl-d14: Outside control limits due to dilution.
- JB35522-7 for Nitrobenzene-d5: Outside control limits due to dilution.

Extractables by GC By Method SW846 8081B

Matrix: AQ	Batch ID: OP65661

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Toxaphene are outside control limits.
- Sample(s) JB35522-6, JB35522-7, JB35522-8, JB35522-11, JB35522-6 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix: SO	Batch ID: OP65674

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- JB35522-8 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-8 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB35522-8 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-8 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-7 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB35522-7 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-11 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-8 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-10 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-1 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-1 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082A

Matrix: AQ	Batch ID: OP65660

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35238-4MS, JB35238-4MSD, OP65660-MSMSD were used as the QC samples indicated.

Matrix: SO	Batch ID: OP65675

- All samples were extracted within the recommended method holding time.
- Sample(s) JB35522-2MS, JB35522-2MSD, OP65675-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB35522-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ	Batch ID: MP71722

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35530-21MS, JB35530-21MSD, JB35530-21SDL were used as the QC samples for metals. (Batch)
- Matrix Spike Recovery(s) for Iron, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Aluminum, Arsenic, Chromium, Lead, Nickel, Silver, Vanadium, Zinc are outside control limits for sample MP71722-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO	Batch ID: MP71771

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD, JB35522-2PS, JB35522-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Manganese, Magnesium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Calcium, Magnesium are outside control limits for sample MP71771-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Selenium, Silver are outside control limits for sample MP71771-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	Batch ID: MP71675

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35530-21MS, JB35530-21MSD were used as the QC samples for metals. (Batch)

Metals By Method SW846 7471B

Matrix: SO	Batch ID: MP71740

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	Batch ID: GN84542

- The data for SM2540 G-97 meets quality control requirements.

Matrix: SO	Batch ID: GN84549

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB37099

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 6/17/2013 10:49:57 A

On 05/15/2013, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB37099 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ	Batch ID: V3A5157

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB36917-3MS, JB36917-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ	Batch ID: V3A5158

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- V3A5158-BS for Methyl Acetate: Outside control limits. No associated sample required/reported for this compound.

Matrix: AQ	Batch ID: V3A5160

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37278-1MS, JB37278-1MSD were used as the QC samples indicated.
- V3A5160-BS for Methyl Acetate: High percent recoveries and no associated positive found in the QC batch.
- JB37278-1MS/MSD for Methyl Acetate: Outside control limits.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ	Batch ID: M:OP33206

- The data for SW846 8270C meets quality control requirements.
- JB37099-2: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-3: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-4: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-5: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-6: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-1: Analysis performed at Accutest Laboratories, Marlborough, MA.

Extractables by GC By Method SW846 8081B

Matrix: AQ	Batch ID: OP66081

- All samples were extracted within the recommended method holding time.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB37099-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.

Extractables by GC By Method SW846 8082A

Matrix: AQ	Batch ID: OP66080

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ	Batch ID: MP72029

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1FMS, JB37099-1FMSD, JB37099-1FSDL, JB37099-1MS, JB37099-1MSD, JB37099-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Antimony, Beryllium, Chromium, Cobalt, Copper, Iron, Nickel, Thallium, Zinc, Aluminum, Cadmium are outside control limits for sample MP72029-SD1, MP72029-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	Batch ID: MP72211

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1FMS, JB37099-1FMSD, JB37099-1MS, JB37099-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey

Job No JB37099

Site: CARICH: Former Zoe Chemical Site, 1801 Falmouth Avenue, New H

Report Date 6/16/2013 11:10:21 AM

5 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were collected on 05/14/2013 and were received at Accutest on 05/15/2013 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of JB37099. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ

Batch ID: OP33206

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- OP33206-MS/MSD for Caprolactam are outside control limits due to possible matrix interference. Refer to Blank Spike.
- OP33206-MSD for 2,4-Dinitrophenol are outside control limits. Meets program technical requirements.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (JB37099).

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** C. A. Rich Consultants**Job No** JB48020**Site:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,**Report Date** 10/7/2013 4:16:19 PM

On 09/20/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB48020 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B**Matrix:** SO**Batch ID:** VE9126

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB47695-14MS, JB47695-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO**Batch ID:** VV5946

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48020-2MS, JB48020-2MSD were used as the QC samples indicated.
- VV5946-BS for Freon 113: High percent recoveries and no associated positive found in the QC batch.

Matrix: SO**Batch ID:** VX6071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48511-7MS, JB48511-3DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for 2-Butanone (MEK), Methylene chloride are outside control limits for sample JB48511-3DUP. High RPD due to low concentration of hit

Extractables by GCMS By Method SW846 8270D**Matrix:** SO**Batch ID:** OP69215

- All samples were extracted within the recommended method holding time.
- Sample(s) JB48033-13MS, JB48033-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: SO	Batch ID: OP69228

- All samples were extracted within the recommended method holding time.
- Sample(s) JB48030-1MS, JB48030-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor are outside control limits for sample OP69228-MSD. Analytical precision exceeds standard laboratory control limits. (BATCH)
- JB48020-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB48020-3 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082A

Matrix: SO	Batch ID: OP69227

- All samples were extracted within the recommended method holding time.
- Sample(s) JB47842-5MS, JB47842-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO	Batch ID: MP74952

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48570-1MS, JB48570-1MSD, JB48570-1SDL were used as the QC samples for metals. (BATCH)
- Matrix Spike Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Calcium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for MSD for Calcium are outside control limits for sample MP74952-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Silver, Sodium, Zinc are outside control limits for sample MP74952-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7471B

Matrix: SO	Batch ID: MP74825

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48017-1MS, JB48017-1MSD were used as the QC samples for metals. (BATCH)

Wet Chemistry By Method SM2540 G-97

Matrix: SO	Batch ID: GN92022

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB49685

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 11/8/2013 5:50:23 PM

On 10/09/2013, 20 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB49685 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ	Batch ID: V4D1873

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-7MS, JB49685-7MSD were used as the QC samples indicated.
- JB49685-6: (pH=6)Sample pH did not satisfy field preservation criteria.
- JB49685-2: (pH=6)Sample pH did not satisfy field preservation criteria.

Matrix: AQ	Batch ID: V4D1877

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-17MS, JB49685-17MSD were used as the QC samples indicated.

Matrix: AQ	Batch ID: V4D1879

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-13MS, JB49685-13MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to matrix interference.
- JB49685-13: Sample analyzed outside the holding time but the original run within holding time.
- JB49685-14: Sample analyzed outside the holding time but the original run within holding time.

Matrix: SO	Batch ID: VX6103

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB49551-27MS, JB49551-27MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount. (BATCH)
- Matrix Spike Duplicate Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JB49685-20: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D

2

Matrix: AQ

Batch ID: OP69769

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-7MS, JB49685-7MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2-Nitrophenol, 3,3'-Dichlorobenzidine, Benzaldehyde are outside of in house control limits.
- JB49685-17 for 2,4,6-Tribromophenol: Refer to re-extract.
- JB49685-17 for Phenol-d5: Refer to re-extract.
- JB49685-17 for 2-Fluorophenol: Refer to re-extract.

Matrix: AQ

Batch ID: OP70061

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50799-3MS, JB50799-3MSD were used as the QC samples indicated.
- JB49685-17: Reextract due to surrogate outside QC limits. Original prep date within holding time.

Matrix: SO

Batch ID: OP69805

- All samples were extracted within the recommended method holding time.
- Sample(s) JB49701-1MS, JB49701-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2-Chloronaphthalene, 4-Chlorophenyl phenyl ether, Acenaphthene, Acenaphthylene, Anthracene, Benzo(b)fluoranthene, bis(2-Chloroethoxy)methane, bis(2-Chloroisopropyl)ether, Diethyl phthalate, Dimethyl phthalate, Fluorene, Hexachloroethane, N-Nitrosodiphenylamine, Phenanthrene, Phenol are outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 2-Chloronaphthalene, bis(2-Chloroethoxy)methane, Phenol are outside control limits. Outside of in house control limits, but within reasonable method recovery limits.
- JB49685-20: Dilution required due to matrix interference.
- JB49685-20 for Nitrobenzene-d5: Outside of in house control limits due to dilution, but within reasonable method recovery limits.
- JB49685-20 for Phenol-d5: Outside control limits due to matrix interference.
- OP69805-BS1 for 2-Fluorobiphenyl: Outside of in house control limits, but within reasonable method recovery limits.

Extractables by GC By Method SW846 8081B

Matrix: AQ	Batch ID: OP69795

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-7MS, JB49685-7MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endosulfan-II, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor are outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endosulfan-II, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor are outside of in house control limits.
- OP69795-MS/MSD for Tetrachloro-m-xylene: Outside of in house control limits.

Matrix: SO	Batch ID: OP69773

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49865-8MS, JB49865-8MSD were used as the QC samples indicated.
- JB49685-20 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB49685-20 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB49685-20 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8082A

Matrix: AQ	Batch ID: OP69794

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-17MS, JB49685-17MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits. Outside control limits due to matrix interference.
- OP69794-MSD for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- OP69794-MS for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Matrix: SO	Batch ID: OP69772

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49747-1MS, JB49747-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ	Batch ID: MP75331

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-17FMS, JB49685-17FMDS, JB49685-17FSDL, JB49685-17MS, JB49685-17MSD, JB49685-17SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Cadmium, Lead, Silver, Aluminum, Cobalt, Copper, Iron, Selenium, Zinc are outside control limits for sample MP75331-SD1, MP75331-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JB49685-7 for Thallium: Elevated detection limit due to dilution required for high interfering element.

Matrix: AQ	Batch ID: MP75750

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB51676-1MS, JB51676-1MSD, JB51676-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Arsenic, Selenium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Arsenic, Selenium are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Magnesium, Nickel are outside control limits for sample MP75750-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP75750-SD1 for Selenium: Serial dilution indicates possible matrix interference.

Matrix: SO	Batch ID: MP75376

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50161-1MS, JB50161-1MSD, JB50161-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Cadmium, Cobalt, Selenium, Silver, Sodium, Zinc are outside control limits for sample MP75376-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	Batch ID: MP75406

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-17FMS, JB49685-17FMDS, JB49685-17MS, JB49685-17MSD were used as the QC samples for metals.
- JB49685-19 for Mercury: Elevated sample detection limit due to difficult sample matrix.
- JB49685-7 for Mercury: Elevated sample detection limit due to limited volume.

Matrix: AQ	Batch ID: MP75768

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49685-14FMS, JB49685-14FMDS were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO	Batch ID: MP75390

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49465-25MSD, JB49465-25MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	Batch ID: GN93248

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** C. A. Rich Consultants**Job No** JB50005**Site:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,**Report Date** 10/30/2013 4:32:44 P

On 10/11/2013, 12 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB50005 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B**Matrix:** AQ**Batch ID:** V2E4337

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50005-11MS, JB50005-11MSD were used as the QC samples indicated.

Matrix: AQ**Batch ID:** V2E4343

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50069-1MS, JB50069-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D**Matrix:** AQ**Batch ID:** OP69857

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B**Matrix:** AQ**Batch ID:** OP69862

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50064-16MS, JB50064-16MSD, OP69862-MSMSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A**Matrix:** AQ**Batch ID:** OP69863

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

DATA USABILITY SUMMARY REPORT (DUSR)

ORGANIC ANALYSIS

**EPA Compendium Method TO-15
VOLATILES BY GC/MS**

**For Air/Soil Gas Samples Collected
September 20, 2013
From Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
CA Rich Consultants, Inc.**

**SAMPLE DELIVERY GROUP NUMBER: JB48053
Accutest Laboratories**

SUBMITTED TO:

**Ms. Jessica Proscia
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, New York 11803**

January 21, 2014

PREPARED BY:

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L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY; September 2013.
Data Validation Report: Volatile Organics

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	Data Qualifier Definitions
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APPENDICES:

- A. Data Summary Form Is with Qualifications
- B. Chain of Custody Document
- C. SDG Narrative

Introduction:

A validation was performed on eleven (11) soil gas [air] samples for Volatile Organic analysis collected by CA Rich Consultants and submitted to Accutest Laboratories, Inc. for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the eleven (11) field samples itemized below. The samples were collected on September 20, 2013.

The samples were analyzed by Accutest utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2000) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the selected TO-15 Target Compound List (TCL) of analytes for Volatile Organics listed in Appendix A.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 4-Updated 2009) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field soil gas/air samples:

Sample Identification	Laboratory Identification(s)	Sample Matrix (Air Type)	Collection Date
IA-1	JB48053-1	Indoor Air Comp.	09/19/13
AA-1	JB48053-2	Ambient Air Comp.	09/19/13
SV-1	JB48053-3	Soil Vapor Comp.	09/19/13
SV-2	JB48053-4	Soil Vapor Comp.	09/19/13
SV-3	JB48053-5	Soil Vapor Comp.	09/19/13
SV-4	JB48053-6	Soil Vapor Comp.	09/19/13
SV-X (Field Duplicate of SV-3)	JB48053-7	Soil Vapor Comp.	09/19/13
SSV-1	JB48053-8	Soil Vapor Comp.	09/19/13
SSV-2	JB48053-9	Soil Vapor Comp.	09/19/13
SSV-3	JB48053-10	Soil Vapor Comp.	09/19/13
SSV-4	JB48053-11	Soil Vapor Comp.	09/19/13

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.**
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.**
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.**
- R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.**
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."**
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.**
- K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.**
- L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.**
- UL - The analyte was not detected and the reported quantitation limit is most likely higher than reported.**
- D - The analyte concentration was obtained from diluted analysis.**

Sample Receipt:

The Chain of Custody document from 09/20/13 indicates that eleven (11) air samples were received at Accutest on 09/20/13 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were considered to be valid and useable as noted on the data summary tables in Appendix A and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

Canister pressure gauge was within requirements of 30 psi prior to sampling.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Recoveries for 4-Bromofluorobenzene fell within in house established ranges of 65-128% for all analyses pertaining to this SDG with the exception of diluted reanalysis of SV-3 and SV-X. BFB recovered low (54%, 53%) in these runs.

The laboratory reported concentration of Chloroethane in SV-3 and SV-X must be considered estimated, biased low, "L."

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Duplicate Analysis (Laboratory and Field)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG. The laboratory performed a blank spike/blank spike duplicate and all recovery values were determined to be acceptable (>75% - <130%) for all compounds with the exception of 1,2,4-Trichlorobenzene which recovered high at 134% applicable to samples SSV-2, SSV-3 and SSV-4. No qualifications were made based on this outlier since the compound was not detected in any associated field samples and therefore high recoveries do not document any potential loss of detection. All RPD met QC requirements (limit of 30%).

Duplicate analysis was submitted with this data package and performed on samples SSV-3 and IA-1. Acceptable precision (RPD-20%) was observed for detected compounds with the exception of Tetrachloroethene in IA-1 and the laboratory duplicate. RPD was determined to be 31% (0.56 ppbv vs. 0.41 ppbv). Based on professional judgment, no qualifications to the data were required.

Field Duplicate analysis was collected on SV-3. Acceptable precision for air samples is 25%. The following criteria is utilized for Field Duplicate analysis:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $\leq 2 \times$ the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $> 2 \times$ the reporting limit.	J in the parent or duplicate sample	UJ in the parent of duplicate sample

Based on the above criteria the following compounds have been qualified:

1,1-Dichloroethene – “UJ” SV-3 and “J” SV-X

1,3,5-Trimethylbenzene – “UJ” SV-3 and “J” SV-X

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Additional QC samples were not analyzed which is acceptable per the method since a blank spike/blank spike duplicate was analyzed.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a “U” when:	Report CRQL & Qualify “U” when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but $\leq 10x$ blank value	Sample Conc. is <CRQL and $\leq 10x$ blank value	Sample Conc. is >CRQL and $> 10x$ blank value
Other Contaminants	Sample Conc. Is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

Method and Canister blanks were determined to be free of any contamination.

Canister cleaning documentation met QC requirements.

B) Field Blank Contamination:

Field Blank analysis was not conducted for this SDG.

C) Trip Blank Contamination:

Trip Blank analysis was not submitted with this SDG.

D) Storage Blank Contamination:

Storage blanks were not submitted for this SDG. It should be noted that storage blanks are not mandated by EPA Method TO-15.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds are allowed to be > 0.01 without qualification:

2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloropropane
Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) [or ≥ 0.01 for the 9 compounds above], for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all target compounds with the exception of Vinyl Chloride (32.52%) in the initial calibration applicable to samples IA-1, AA-1, SV-1, SV-2, SV-3, SV-4, SV-X and SSV-1. Non-detects have been qualified, "UJ."

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all target compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were reported in accordance with the project requirements. The identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently all concentrations should be considered estimated, "J" and as a result of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not submitted with this data set.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m³ as well as ppbv on the laboratory reporting forms. The spreadsheet provided is presented in ug/m³.

All samples were initially analyzed undiluted with the exception of SSV-1. Several analyte concentrations were determined to be over the instruments linear calibration range for SV-1, SV-3, SV-4, SV-X and SSV-2. Diluted reanalyses were performed at reduced volumes to obtain concentrations within range. The diluted concentration must be utilized by the end user and is presented in the Form I's provided in Appendix A and qualified, "D" as required by NYSDEC.

IA-1 was not further diluted to obtain Ethanol within the upper half of the instruments linear calibration range. Results must be considered estimated, biased low, "L" for this analyte.

226IA-02 was not further diluted to obtain Ethanol within the upper half of the instruments linear calibration range. Results must be considered estimated for this analyte.

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis except where explained in the laboratory SDG Narrative and the detailed validation report. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Paul A. Berg Date 01/21/14

**Appendix A
Data Summary
Form I's
With Qualifications**

Table 12
Volatile Organic Compounds in Exterior Soil Vapor and Ambient Air Samples
1801 Falmouth Avenue
New Hyde Park, NY

Sample ID Matrix Date Sampled	SV-1 Soil Vapor 9/19/2013	SV-2 Soil Vapor 9/19/2013	SV-3 Soil Vapor 9/19/2013	SV-4 Soil Vapor 9/19/2013	SV-X Soil Vapor 9/19/2013	*NYSDOH 2006 Matrix1/Matrix 2 Sub-Slab Vapor	AA-1 Ambient Air 9/19/2013	*NYSDOH 2006 Matrix1/Matrix 2 Indoor Air
Volatile Organic Compounds								
Units	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³
Acetone	24.7	309	354	25.7	352	NS	13	NS
1,3-Butadiene	ND	ND	ND	ND	ND	NS	ND	NS
Benzene	8.0	8.3	170	11	190	NS	0.80	NS
Bromodichloromethane	ND	33	ND	ND	ND	NS	ND	NS
Bromoform	ND	ND	ND	ND	ND	NS	ND	NS
Bromomethane	ND	ND	ND	ND	ND	NS	ND	NS
Bromoethene	ND	ND	ND	ND	ND	NS	ND	NS
Benzyl Chloride	ND	ND	ND	ND	ND	NS	ND	NS
Carbon disulfide	19	14	214	3.7	225	NS	ND	NS
Chlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
Chloroethane	ND	9.2	5,120 DL	4.7	4,640 DL	NS	ND	NS
Chloroform	20	292	ND	122	ND	NS	ND	NS
Chloromethane	ND	ND	ND	ND	ND	NS	0.89	NS
3-Chloropropene	ND	ND	ND	ND	ND	NS	ND	NS
2-Chlorotoluene	ND	ND	ND	ND	ND	NS	ND	NS
Carbon tetrachloride	ND	19	ND	ND	ND	< 5	ND	< 0.25
Cyclohexane	ND	ND	916	2.4 J	1020	NS	ND	NS
1,1-Dichloroethane	68.8	635	498	2030	546	NS	ND	NS
1,1-Dichloroethylene	ND	4.8	ND UJ	15	81.3 J	< 100	ND	< 3
1,2-Dibromoethane	ND	ND	ND	ND	ND	NS	ND	NS
1,2-Dichloroethane	ND	ND	43.7	ND	ND	NS	ND	NS
1,2-Dichloropropane	ND	ND	ND	ND	ND	NS	ND	NS
1,4-Dioxane	ND	ND	ND	ND	ND	NS	ND	NS
Dichlorodifluoromethane	4.0	5.4	ND	14	ND	NS	2.4	NS
Dibromochloromethane	ND	3.3 J	ND	ND	ND	NS	ND	NS
trans-1,2-Dichloroethylene	ND	6.7	408	83.3	456	NS	ND	NS
cis-1,2-Dichloroethylene	11	2.9 J	126	615 D	138	<100	ND	< 3
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS	ND	NS
m-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
o-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
p-Dichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS	ND	NS
Ethanol	ND	9.0	ND	ND	ND	NS	11	NS
Ethylbenzene	3.3 J	3.3 J	1060	3.3 J	1050	NS	0.56 J	NS
Ethyl acetate	ND	ND	ND	ND	ND	NS	2.1	NS
4-Ethyltoluene	ND	ND	ND	1.9 J	ND	NS	ND	NS
Freon 113	ND	ND	ND	ND	ND	NS	ND	NS
Freon 114	ND	ND	ND	ND	ND	NS	ND	NS
Heptane	2.2 J	4.1	869	1.8 J	943	NS	0.74 J	NS
Hexachlorobutadiene	ND	ND	ND	ND	ND	NS	ND	NS
Hexane	1.8 J	4.9	472	3.2	518	NS	1.2	NS
2-Hexanone	ND	ND	ND	ND	ND	NS	ND	NS
Isopropyl Alcohol	ND	5.9	ND	ND	ND	NS	2.1	NS
Methylene chloride	4.2	48.3	245	3.5	251	NS	1.6	NS
Methyl ethyl ketone	18	36.0	178	6.2	196	NS	1.5	NS
Methyl Isobutyl Ketone	ND	ND	ND	ND	ND	NS	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	NS	ND	NS
Methylmethacrylate	ND	ND	ND	ND	ND	NS	ND	NS
Propylene	ND	14	1100	13	1090	NS	ND	NS
Styrene	ND	ND	ND	ND	ND	NS	ND	NS
1,1,1-Trichloroethane	617	617	11 J	3,260 D	14 J	< 100	ND	< 3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	NS	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	2.1 J	ND	NS	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trimethylbenzene	7.4	38	ND	7.9	ND	NS	0.84 J	NS
1,3,5-Trimethylbenzene	ND	ND	ND UJ	2.0 J	188 J	NS	ND	NS
2,2,4-Trimethylpentane	ND	ND	757	ND	822	NS	1.3	NS
Tertiary Butyl Alcohol	ND	5.5	21	5.8	ND	NS	ND	NS
Tetrachloroethylene	6,470 D	293	ND	5,150 D	4.5 J	< 100	0.95	< 3
Tetrahydrofuran	6.8	2.9	ND	2.3 J	ND	NS	ND	NS
Toluene	8.3	18	388	7.9	433	NS	3.4	NS
Trichloroethylene	91.4	62.3	53	1,690 D	64.0	< 5	ND	< 0.25
Trichlorofluoromethane	4.1 J	8.4	ND	7.3	ND	NS	1.4	NS
Vinyl chloride	ND	3.8	1,080	ND	1,150	< 5	ND	< 0.25
Vinyl Acetate	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	NS	ND UJ	NS
m,p-Xylene	11	9.1	925	10	912	NS	1.7	NS
o-Xylene	3.9	3.7	24	3.6	21	NS	0.65 J	NS
Xylenes (total)	15	13	951	13	930	NS	2.3	NS

Notes:

J- Analyte detected below quantitation limits.

ND- Not detected at or above laboratory detection limits.

NS- No standard for specific compound

a - Results from Run #2

ug/m³ - micrograms per cubic meters

SV-X is a duplicate of SV-3

*NYSDOH guidance for evaluating Soil Vapor in the State of New York

Oct. 2006 Matrix 1 & 2 levels for "No Further Action"

Table 13 Volatile Organic Compounds in Sub-Slab Vapor and Indoor Air Samples 1801 Falmouth Avenue New Hyde Park, NY							
Sample ID	SSV-1	SSV-2	SSV-3	SSV-4	*NYSDOH 2006	IA-1	*NYSDOH 2006
Matrix	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Matrix1/Matrix 2	Indoor Air	Matrix1/Matrix 2
Date Sampled	9/19/2013	9/19/2013	9/19/2013	9/19/2013	Sub-Slab Vapor	9/19/2013	Indoor Air
Volatile Organic Compounds							
Units	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
Acetone	1050	49.9	39.9	297	NS	79.8	NS
1,3-Butadiene	ND	ND	ND	ND	NS	ND	NS
Benzene	ND	7.3 J	3.2	2.5 J	NS	1.0	NS
Bromodichloromethane	ND	ND	ND	ND	NS	ND	NS
Bromoform	ND	ND	ND	ND	NS	ND	NS
Bromomethane	ND	ND	ND	ND	NS	ND	NS
Bromoethene	ND	ND	ND	ND	NS	ND	NS
Benzyl Chloride	ND	ND	ND	ND	NS	ND	NS
Carbon disulfide	ND	ND	ND	ND	NS	ND	NS
Chlorobenzene	ND	ND	ND	ND	NS	ND	NS
Chloroethane	ND	14	ND	ND	NS	ND	NS
Chloroform	ND	131	ND	ND	NS	ND	NS
Chloromethane	ND	ND	ND	ND	NS	1.2	NS
3-Chloropropene	ND	ND	ND	ND	NS	ND	NS
2-Chlorotoluene	ND	ND	ND	ND	NS	ND	NS
Carbon tetrachloride	ND	ND	ND	ND	< 5	ND	< 0.25
Cyclohexane	ND	ND	ND	ND	NS	1.2	NS
1,1-Dichloroethane	11700	5,870 D	1.6 J	19	NS	ND	NS
1,1-Dichloroethylene	271	210	ND	ND	< 100	ND	< 3
1,2-Dibromoethane	ND	ND	ND	ND	NS	ND	NS
1,2-Dichloroethane	38 J	ND	ND	ND	NS	ND	NS
1,2-Dichloropropane	ND	ND	ND	ND	NS	ND	NS
1,4-Dioxane	166	ND	ND	ND	NS	ND	NS
Dichlorodifluoromethane	ND	49.4	ND	19	NS	2.2	NS
Dibromochloromethane	ND	ND	ND	ND	NS	ND	NS
trans-1,2-Dichloroethylene	ND	106	ND	ND	NS	ND	NS
cis-1,2-Dichloroethylene	ND	547	ND	ND	<100	ND	< 3
cis-1,3-Dichloropropene	ND	ND	ND	ND	NS	ND	NS
m-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
o-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
p-Dichlorobenzene	ND	ND	ND	ND	NS	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	NS	ND	NS
Ethanol	ND	34.9	ND	ND	NS	271 L	NS
Ethylbenzene	ND	10 J	7.4	6.9	NS	1.9	NS
Ethyl acetate	ND	ND	ND	7.6	NS	5.4	NS
4-Ethyltoluene	ND	ND	2.7 J	ND	NS	0.84 J	NS
Freon 113	ND	ND	ND	ND	NS	ND	NS
Freon 114	ND	ND	ND	31	NS	ND	NS
Heptane	ND	ND	ND	ND	NS	1.3	NS
Hexachlorobutadiene	ND	ND	ND	ND	NS	ND	NS
Hexane	ND	9.9 J	3.3	3	NS	6.7	NS
2-Hexanone	ND	ND	ND	ND	NS	ND	NS
Isopropyl Alcohol	327	ND	ND	ND	NS	16	NS
Methylene chloride	ND	20	6.3	11	NS	1.5	NS
Methyl ethyl ketone	ND	ND	11	9.4	NS	4.7	NS
Methyl Isobutyl Ketone	ND	ND	ND	ND	NS	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	16	NS	ND	NS
Methylmethacrylate	ND	ND	ND	ND	NS	ND	NS
Propylene	ND	ND	ND	13	NS	ND	NS
Styrene	ND	ND	3.1 J	ND	NS	3.9	NS
1,1,1-Trichloroethane	182,000 D	18,800 D	31	400	< 100	1.3	< 3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NS	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	NS	ND	NS
1,2,4-Trimethylbenzene	ND	11 J	9.8	13	NS	2.7	NS
1,3,5-Trimethylbenzene	ND	ND	2.8 J	3.0 J	NS	0.84 J	NS
2,2,4-Trimethylpentane	ND	ND	ND	ND	NS	1.7	NS
Tertiary Butyl Alcohol	ND	ND	ND	30	NS	ND	NS
Tetrachloroethylene	351	396	237	171	< 100	3.8	< 3
Tetrahydrofuran	ND	ND	10	5.6	NS	0.91	NS
Toluene	45.6 J	15	20	26			

Accutest Laboratories

Report of Analysis

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Client Sample ID:	IA-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-1	Date Received:	09/20/13
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A272
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36126.D	1.6	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	640 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	33.6	0.20	0.034	ppbv		79.8	0.48	0.081	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	0.044	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.021	ppbv		1.0	0.64	0.067	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	0.17	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	0.23	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	0.066	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	0.061	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	0.053	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	0.053	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	0.093	ug/m3
74-87-3	50.49	Chloromethane	0.56	0.20	0.034	ppbv		1.2	0.41	0.070	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	0.088	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	0.10	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	0.34	0.20	0.058	ppbv		1.2	0.69	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	0.22	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.20	0.015	ppbv		2.2	0.99	0.074	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	0.25	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	0.059	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	0.086	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	0.15	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	0.095	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IA-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-1	Date Received:	09/20/13
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A272
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

4.1
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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	144	L 0.50	0.19	ppbv	E	271	L 0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.44	0.20	0.020	ppbv		1.9	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.20	0.057	ppbv		5.4	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.17	0.20	0.015	ppbv	J	0.84	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.31	0.20	0.020	ppbv		1.3	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	1.9	0.20	0.016	ppbv		6.7	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	6.7	0.20	0.039	ppbv		16	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.42	0.20	0.047	ppbv		1.5	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.20	0.058	ppbv		4.7	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	0.91	0.20	0.020	ppbv		3.9	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.23	0.20	0.016	ppbv		1.3	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.55	0.20	0.017	ppbv		2.7	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.17	0.20	0.015	ppbv	J	0.84	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.36	0.20	0.021	ppbv		1.7	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.56	0.040	0.029	ppbv		3.8	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.31	0.20	0.045	ppbv		0.91	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	4.5	0.20	0.020	ppbv		17	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	0.056	0.040	0.019	ppbv		0.30	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.014	ppbv		1.5	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	1.7	0.20	0.032	ppbv		7.4	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.60	0.20	0.019	ppbv		2.6	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	2.3	0.20	0.019	ppbv		10	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

10/1/14

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID: AA-1
 Lab Sample ID: JB48053-2
 Matrix: AIR - Ambient Air Comp. Summa ID: A345
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36128.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.5	0.20	0.034	ppbv	13	0.48	0.081	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv	ND	0.44	0.044	ug/m3	
71-43-2	78.11	Benzene	0.25	0.20	0.021	ppbv	0.80	0.64	0.067	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv	ND	1.3	0.17	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv	ND	2.1	0.23	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv	ND	0.78	0.066	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv	ND	0.87	0.061	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv	ND	1.0	0.13	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.017	ppbv	ND	0.62	0.053	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv	ND	0.92	0.12	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv	ND	0.53	0.053	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv	ND	0.98	0.093	ug/m3	
74-87-3	50.49	Chloromethane	0.43	0.20	0.034	ppbv	0.89	0.41	0.070	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv	ND	0.63	0.088	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv	ND	1.0	0.10	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv	ND	1.3	0.069	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.058	ppbv	ND	0.69	0.20	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv	ND	0.81	0.065	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv	ND	0.79	0.083	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	0.21	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv	ND	0.81	0.065	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv	ND	0.92	0.18	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv	ND	0.72	0.22	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.015	ppbv	2.4	0.99	0.074	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv	ND	1.7	0.25	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv	ND	0.79	0.059	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	0.11	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv	ND	0.91	0.086	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	0.15	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv	ND	1.2	0.17	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv	ND	1.2	0.13	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv	ND	0.91	0.095	ug/m3	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AA-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-2	Date Received:	09/20/13
Matrix:	AIR - Ambient Air Comp.	Summa ID:	A345
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.8	0.50	0.19	ppbv		11	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.13	0.20	0.020	ppbv	J	0.56	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	0.57	0.20	0.057	ppbv		2.1	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.18	0.20	0.020	ppbv	J	0.74	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	0.34	0.20	0.016	ppbv		1.2	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.84	0.20	0.039	ppbv		2.1	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.46	0.20	0.047	ppbv		1.6	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.50	0.20	0.058	ppbv		1.5	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.020	ppbv		ND	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.17	0.20	0.017	ppbv	J	0.84	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.27	0.20	0.021	ppbv		1.3	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.14	0.040	0.029	ppbv		0.95	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.91	0.20	0.020	ppbv		3.4	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.014	ppbv		1.4	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	0.39	0.20	0.032	ppbv		1.7	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.15	0.20	0.019	ppbv	J	0.65	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.019	ppbv		2.3	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID:	SV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-3	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A451,A541	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36130.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2	3W36150.D	24	09/25/13	YMH	n/a	n/a	V3W1391

Run #	Initial Volume
Run #1	100 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	10.4	0.80	0.14	ppbv		24.7	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	2.5	0.80	0.084	ppbv		8.0	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	6.1	0.80	0.069	ppbv		19	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	4.1	0.80	0.074	ppbv		20	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	17.0	0.80	0.066	ppbv		68.8	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.80	0.80	0.062	ppbv		4.0	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	2.7	0.80	0.11	ppbv		11	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-3	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A451,A541
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.77	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	0.53	0.80	0.078	ppbv	J	2.2	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.52	0.80	0.064	ppbv	J	1.8	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.80	0.19	ppbv		4.2	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.2	0.80	0.23	ppbv		18	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	ND	2.0	0.13	ppbv		ND	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	113	0.80	0.066	ppbv		617	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.5	0.80	0.066	ppbv		7.4	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	954 $\rightarrow$ D	1.9	1.4	ppbv		6470 $\rightarrow$ D	13	9.5	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.3	0.80	0.18	ppbv		6.8	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	2.2	0.80	0.081	ppbv		8.3	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	17.0	0.16	0.078	ppbv		91.4	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.73	0.80	0.055	ppbv	J	4.1	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.5	0.80	0.13	ppbv		11	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.90	0.80	0.077	ppbv		3.9	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.4	0.80	0.077	ppbv		15	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	86%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Signature

Report of Analysis

Client Sample ID:	SV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-3	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A451,A541
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	SV-2	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-4	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A1055
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36131.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	130	0.80	0.14	ppbv		309	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	2.6	0.80	0.084	ppbv		8.3	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	4.9	0.80	0.099	ppbv		33	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	4.5	0.80	0.069	ppbv		14	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	3.5	0.80	0.082	ppbv		9.2	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	59.7	0.80	0.074	ppbv		292	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	3.0	0.80	0.045	ppbv		19	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	157	0.80	0.066	ppbv		635	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.2	0.80	0.084	ppbv		4.8	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.1	0.80	0.062	ppbv		5.4	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	0.39	0.80	0.12	ppbv	J	3.3	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	1.7	0.80	0.059	ppbv		6.7	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.72	0.80	0.11	ppbv	J	2.9	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-2	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-4	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A1055
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	4.8	2.0	0.74	ppbv		9.0	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.75	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	1.0	0.80	0.078	ppbv		4.1	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	1.4	0.80	0.064	ppbv		4.9	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.4	0.80	0.15	ppbv		5.9	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	13.9	0.80	0.19	ppbv		48.3	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	12.2	0.80	0.23	ppbv		36.0	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	8.4	2.0	0.13	ppbv		14	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	113	0.80	0.066	ppbv		617	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	7.8	0.80	0.066	ppbv		38	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4 Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.8	0.80	0.18	ppbv		5.5	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	43.2	0.16	0.12	ppbv		293	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.0	0.80	0.18	ppbv		2.9	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	4.7	0.80	0.081	ppbv		18	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	11.6	0.16	0.078	ppbv		62.3	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.5	0.80	0.055	ppbv		8.4	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	1.5	0.80	0.068	ppbv		3.8	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.1	0.80	0.13	ppbv		9.1	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.86	0.80	0.077	ppbv		3.7	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.0	0.80	0.077	ppbv		13	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	SV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-5	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A074,A409	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36132.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2	3W36151.D	52	09/25/13	YMH	n/a	n/a	V3W1391

Run #	Initial Volume
Run #1	20.0 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	149	4.0	0.68	ppbv		354	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	53.3	4.0	0.42	ppbv		170	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	68.8	4.0	0.35	ppbv		214	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	1940 ^a L	21	2.1	ppbv		5120 ^a L	55	5.5	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.37	ppbv		ND	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	266	4.0	1.2	ppbv		916	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	123	4.0	0.33	ppbv		498	16	1.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND ^{UJ}	4.0	0.42	ppbv		ND ^{UJ}	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	10.8	4.0	0.33	ppbv		43.7	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.31	ppbv		ND	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	103	4.0	0.30	ppbv		408	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	31.8	4.0	0.55	ppbv		126	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-5	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A074,A409
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	10	3.7	ppbv		ND	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	243	4.0	0.40	ppbv		1060	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	212	4.0	0.39	ppbv		869	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	134	4.0	0.32	ppbv		472	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	70.4	4.0	0.93	ppbv		245	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	60.5	4.0	1.2	ppbv		178	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	641	10	0.63	ppbv		1100	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	2.0	4.0	0.33	ppbv	J	11	22	1.8	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	4.0	0.33	ppbv		ND	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	162	4.0	0.42	ppbv		757	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	6.8	4.0	0.88	ppbv		21	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.80	0.58	ppbv		ND	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	103	4.0	0.40	ppbv		388	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	9.9	0.80	0.39	ppbv		53	4.3	2.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.27	ppbv		ND	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	421	4.0	0.34	ppbv		1080	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	213	4.0	0.65	ppbv		925	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	5.6	4.0	0.39	ppbv		24	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	219	4.0	0.39	ppbv		951	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%	54% ^b	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-5	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A074,A409
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	SV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-6	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A849,A782
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36133.D	1	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36152.D	25	09/25/13	YMH	n/a	n/a	V3W1391

	Initial Volume
Run #1	100 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	10.8	0.80	0.14	ppbv		25.7	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	3.3	0.80	0.084	ppbv		11	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	1.2	0.80	0.069	ppbv		3.7	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	1.8	0.80	0.082	ppbv		4.7	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	25.0	0.80	0.074	ppbv		122	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	0.71	0.80	0.23	ppbv	J	2.4	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	501 ^a D	10	0.82	ppbv		2030 ^a D	40	3.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	3.7	0.80	0.084	ppbv		15	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	2.9	0.80	0.062	ppbv		14	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	21.0	0.80	0.059	ppbv		83.3	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	155 ^a D	10	1.4	ppbv		615 ^a D	40	5.6	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-4
 Lab Sample ID: JB48053-6
 Matrix: AIR - Soil Vapor Comp. Summa ID: A849,A782
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

4.6
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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.76	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.39	0.80	0.060	ppbv	J	1.9	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	0.44	0.80	0.078	ppbv	J	1.8	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.92	0.80	0.064	ppbv		3.2	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.0	0.80	0.19	ppbv		3.5	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.1	0.80	0.23	ppbv		6.2	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	7.3	2.0	0.13	ppbv		13	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	598 $\leftarrow$ D	10	0.82	ppbv		3260 $\leftarrow$ D	55	4.5	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.39	0.80	0.12	ppbv	J	2.1	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.6	0.80	0.066	ppbv		7.9	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.40	0.80	0.060	ppbv	J	2.0	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.9	0.80	0.18	ppbv		5.8	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	759 $\leftarrow$ D	2.0	1.4	ppbv		5150 $\leftarrow$ D	14	9.5	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.79	0.80	0.18	ppbv	J	2.3	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	2.1	0.80	0.081	ppbv		7.9	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	314 $\leftarrow$ D	2.0	0.97	ppbv		1690 $\leftarrow$ D	11	5.2	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.3	0.80	0.055	ppbv		7.3	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.3	0.80	0.13	ppbv		10	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.84	0.80	0.077	ppbv		3.6	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.1	0.80	0.077	ppbv		13	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	88%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SEP 21 11 01 14

Report of Analysis

Client Sample ID:	SV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-6	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A849,A782
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

4.6
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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: SV-X (SU-3)
 Lab Sample ID: JB48053-7
 Matrix: AIR - Soil Vapor Comp. Summa ID: A902,A792
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36139.D	1	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36153.D	46	09/25/13	YMH	n/a	n/a	V3W1391

Run #	Initial Volume
Run #1	20.0 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	148	4.0	0.68	ppbv		352	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	59.4	4.0	0.42	ppbv		190	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	72.2	4.0	0.35	ppbv		225	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	1760 PL	18	1.9	ppbv		4640 PL	47	5.0	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.37	ppbv		ND	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	297	4.0	1.2	ppbv		1020	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	135	4.0	0.33	ppbv		546	16	1.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	20.5 J	4.0	0.42	ppbv		81.3 J	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	0.33	ppbv		ND	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.31	ppbv		ND	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	115	4.0	0.30	ppbv		456	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	34.7	4.0	0.55	ppbv		138	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

JB48053
 11/10/14

Report of Analysis

Client Sample ID: SV-X (SU-3)
 Lab Sample ID: JB48053-7
 Matrix: AIR - Soil Vapor Comp. Summa ID: A902,A792
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

4.7
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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	10	3.7	ppbv		ND	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	242	4.0	0.40	ppbv		1050	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	230	4.0	0.39	ppbv		943	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	147	4.0	0.32	ppbv		518	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	72.3	4.0	0.93	ppbv		251	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	66.3	4.0	1.2	ppbv		196	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	637	10	0.63	ppbv		1090	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	2.6	4.0	0.33	ppbv	J	14	22	1.8	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	4.0	0.33	ppbv		ND	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	38.2	J 4.0	0.30	ppbv		188	J 20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	176	4.0	0.42	ppbv		822	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	0.88	ppbv		ND	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.66	0.80	0.58	ppbv	J	4.5	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	115	4.0	0.40	ppbv		433	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	11.9	0.80	0.39	ppbv		64.0	4.3	2.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.27	ppbv		ND	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	450	4.0	0.34	ppbv		1150	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	210	4.0	0.65	ppbv		912	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	4.9	4.0	0.39	ppbv		21	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	214	4.0	0.39	ppbv		930	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%	53% ^b	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

JP 11/18/12

Report of Analysis

Page 3 of 3

Client Sample ID:	SV-X (SV-3)	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-7	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A902,A792
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID:	SSV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-8	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A373,A801	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36140.D	48	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36179.D	48	09/26/13	YMH	n/a	n/a	V3W1392

Run #	Initial Volume
Run #1	200 ml
Run #2	15.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	441	19	3.3	ppbv		1050	45	7.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	19	1.9	ppbv		ND	42	4.2	ug/m3
71-43-2	78.11	Benzene	ND	19	2.0	ppbv		ND	61	6.4	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	19	2.4	ppbv		ND	130	16	ug/m3
75-25-2	252.8	Bromoform	ND	19	2.1	ppbv		ND	200	22	ug/m3
74-83-9	94.94	Bromomethane	ND	19	1.7	ppbv		ND	74	6.6	ug/m3
593-60-2	106.9	Bromoethene	ND	19	1.4	ppbv		ND	83	6.1	ug/m3
100-44-7	126	Benzyl Chloride	ND	19	2.4	ppbv		ND	98	12	ug/m3
75-15-0	76.14	Carbon disulfide	ND	19	1.7	ppbv		ND	59	5.3	ug/m3
108-90-7	112.6	Chlorobenzene	ND	19	2.4	ppbv		ND	88	11	ug/m3
75-00-3	64.52	Chloroethane	ND	19	2.0	ppbv		ND	50	5.3	ug/m3
67-66-3	119.4	Chloroform	ND	19	1.8	ppbv		ND	93	8.8	ug/m3
74-87-3	50.49	Chloromethane	ND	19	3.2	ppbv		ND	39	6.6	ug/m3
107-05-1	76.53	3-Chloropropene	ND	19	2.6	ppbv		ND	59	8.1	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	19	1.9	ppbv		ND	98	9.8	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	19	1.1	ppbv		ND	120	6.9	ug/m3
110-82-7	84.16	Cyclohexane	ND	19	5.6	ppbv		ND	65	19	ug/m3
75-34-3	98.96	1,1-Dichloroethane	2890	19	1.6	ppbv		11700	77	6.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	68.3	19	2.0	ppbv		271	75	7.9	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	19	2.6	ppbv		ND	150	20	ug/m3
107-06-2	98.96	1,2-Dichloroethane	9.5	19	1.6	ppbv	J	38	77	6.5	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	19	3.8	ppbv		ND	88	18	ug/m3
123-91-1	88.12	1,4-Dioxane	46.0	19	5.8	ppbv		166	68	21	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	19	1.5	ppbv		ND	94	7.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	19	2.8	ppbv		ND	160	24	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	19	1.4	ppbv		ND	75	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	19	2.6	ppbv		ND	75	10	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	19	1.8	ppbv		ND	86	8.2	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	19	2.4	ppbv		ND	110	14	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	19	2.8	ppbv		ND	110	17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	19	2.1	ppbv		ND	110	13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	19	2.0	ppbv		ND	86	9.1	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSV-1		Date Sampled:	09/19/13
Lab Sample ID:	JB48053-8		Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID: A373,A801	Percent Solids:	n/a
Method:	TO-15			
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY			

4.8
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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	48	18	ppbv		ND	90	34	ug/m3
100-41-4	106.2	Ethylbenzene	ND	19	1.9	ppbv		ND	83	8.3	ug/m3
141-78-6	88	Ethyl Acetate	ND	19	5.5	ppbv		ND	68	20	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	19	1.4	ppbv		ND	93	6.9	ug/m3
76-13-1	187.4	Freon 113	ND	19	2.0	ppbv		ND	150	15	ug/m3
76-14-2	170.9	Freon 114	ND	19	2.0	ppbv		ND	130	14	ug/m3
142-82-5	100.2	Heptane	ND	19	1.9	ppbv		ND	78	7.8	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	19	6.0	ppbv		ND	200	64	ug/m3
110-54-3	86.17	Hexane	ND	19	1.5	ppbv		ND	67	5.3	ug/m3
591-78-6	100	2-Hexanone	ND	19	2.4	ppbv		ND	78	9.8	ug/m3
67-63-0	60.1	Isopropyl Alcohol	133	19	3.7	ppbv		327	47	9.1	ug/m3
75-09-2	84.94	Methylene chloride	ND	19	4.5	ppbv		ND	66	16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	19	5.6	ppbv		ND	56	17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	19	2.8	ppbv		ND	78	11	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	19	1.6	ppbv		ND	69	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	19	3.9	ppbv		ND	78	16	ug/m3
115-07-1	42	Propylene	ND	48	3.0	ppbv		ND	82	5.2	ug/m3
100-42-5	104.1	Styrene	ND	19	1.9	ppbv		ND	81	8.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	33300 ^D	260	21	ppbv		182000 ^D	1400	110	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	19	2.9	ppbv		ND	130	20	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	19	3.0	ppbv		ND	100	16	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	19	7.6	ppbv		ND	140	56	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	19	1.6	ppbv		ND	93	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	19	1.4	ppbv		ND	93	6.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	19	2.0	ppbv		ND	89	9.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	19	4.2	ppbv		ND	58	13	ug/m3
127-18-4	165.8	Tetrachloroethylene	51.8	3.8	2.8	ppbv		351	26	19	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	19	4.3	ppbv		ND	56	13	ug/m3
108-88-3	92.14	Toluene	12.1	19	1.9	ppbv	J	45.6	72	7.2	ug/m3
79-01-6	131.4	Trichloroethylene	6.4	3.8	1.9	ppbv		34	20	10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	19	1.3	ppbv		ND	110	7.3	ug/m3
75-01-4	62.5	Vinyl chloride	ND	19	1.6	ppbv		ND	49	4.1	ug/m3
108-05-4	86	Vinyl Acetate	ND	19	5.6	ppbv		ND	67	20	ug/m3
	106.2	m,p-Xylene	10.8	19	3.1	ppbv	J	46.9	83	13	ug/m3
95-47-6	106.2	o-Xylene	ND	19	1.9	ppbv		ND	83	8.3	ug/m3
1330-20-7	106.2	Xylenes (total)	10.8	19	1.9	ppbv	J	46.9	83	8.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%	88%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

80/11/14/17

Report of Analysis

Client Sample ID:	SSV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-8	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A373,A801
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: SSV-2
 Lab Sample ID: JB48053-9
 Matrix: AIR - Soil Vapor Comp. Summa ID: A1064,A400
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43827.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2	W43837.D	46	09/25/13	DFT	n/a	n/a	VW1754

Run #	Initial Volume
Run #1	20.0 ml
Run #2	80.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	21.0	4.0	0.68	ppbv		49.9	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	2.3	4.0	0.42	ppbv	J	7.3	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.35	ppbv		ND	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	5.4	4.0	0.41	ppbv		14	11	1.1	ug/m3
67-66-3	119.4	Chloroform	26.9	4.0	0.37	ppbv		131	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	ND	4.0	1.2	ppbv		ND	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	1450 ^a D	46	3.8	ppbv		5870 ^a D	190	15	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	53.0	4.0	0.42	ppbv		210	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	0.33	ppbv		ND	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	10.0	4.0	0.31	ppbv		49.4	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	26.7	4.0	0.30	ppbv		106	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	138	4.0	0.55	ppbv		547	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SSV-2
 Lab Sample ID: JB48053-9
 Matrix: AIR - Soil Vapor Comp. Summa ID: A1064,A400
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	18.5	10	3.7	ppbv		34.9	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	2.3	4.0	0.40	ppbv	J	10	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	ND	4.0	0.39	ppbv		ND	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	2.8	4.0	0.32	ppbv	J	9.9	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	5.7	4.0	0.93	ppbv		20	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	4.0	1.2	ppbv		ND	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	ND	10	0.63	ppbv		ND	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	3440 ^a D	46	3.8	ppbv		18800 ^a D	250	21	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.2	4.0	0.33	ppbv	J	11	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	0.42	ppbv		ND	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	0.88	ppbv		ND	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	58.4	0.80	0.58	ppbv		396	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	4.1	4.0	0.40	ppbv		15	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	1070 ^a D	9.2	4.5	ppbv		5750 ^a D	49	24	ug/m3
75-69-4	137.4	Trichlorofluoromethane	10.6	4.0	0.27	ppbv		59.6	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	0.34	ppbv		ND	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	8.8	4.0	0.65	ppbv		38	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	2.7	4.0	0.39	ppbv	J	12	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	11.5	4.0	0.39	ppbv		50.0	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	87%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

80/11/2014

Report of Analysis

Client Sample ID:	SSV-2	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-9	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A1064,A400
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID: SSV-3
 Lab Sample ID: JB48053-10
 Matrix: AIR - Soil Vapor Comp. Summa ID: A247
 Method: TO-15
 Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Date Sampled: 09/19/13
 Date Received: 09/20/13
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43828.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	16.8	0.80	0.14	ppbv		39.9	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	1.0	0.80	0.084	ppbv		3.2	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.069	ppbv		ND	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40	0.80	0.066	ppbv	J	1.6	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.062	ppbv		ND	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-10	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A247
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.7	0.80	0.081	ppbv		7.4	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.54	0.80	0.060	ppbv	J	2.7	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.078	ppbv		ND	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.93	0.80	0.064	ppbv		3.3	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.8	0.80	0.19	ppbv		6.3	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.80	0.23	ppbv		11	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	ND	2.0	0.13	ppbv		ND	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	0.72	0.80	0.079	ppbv	J	3.1	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	5.6	0.80	0.066	ppbv		31	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0	0.80	0.066	ppbv		9.8	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.56	0.80	0.060	ppbv	J	2.8	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4 Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	34.9	0.16	0.12	ppbv		237	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	3.4	0.80	0.18	ppbv		10	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	5.4	0.80	0.081	ppbv		20	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	2.6	0.16	0.078	ppbv		14	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.055	ppbv		ND	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	6.1	0.80	0.13	ppbv		26	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	2.2	0.80	0.077	ppbv		9.6	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	8.3	0.80	0.077	ppbv		36	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	SSV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-11	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A1020
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43830.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	125	0.80	0.14	ppbv		297	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	0.79	0.80	0.084	ppbv	J	2.5	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.069	ppbv		ND	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	4.7	0.80	0.066	ppbv		19	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	3.9	0.80	0.062	ppbv		19	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-11	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A1020
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.6	0.80	0.081	ppbv		6.9	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	2.1	0.80	0.23	ppbv		7.6	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	4.5	0.80	0.085	ppbv		31	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.078	ppbv		ND	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.86	0.80	0.064	ppbv		3.0	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	3.2	0.80	0.19	ppbv		11	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.2	0.80	0.23	ppbv		9.4	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	4.4	0.80	0.068	ppbv		16	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	7.5	2.0	0.13	ppbv		13	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	73.3	0.80	0.066	ppbv		400	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.6	0.80	0.066	ppbv		13	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.61	0.80	0.060	ppbv	J	3.0	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	9.9	0.80	0.18	ppbv		30	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	25.2	0.16	0.12	ppbv		171	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.9	0.80	0.18	ppbv		5.6	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	6.8	0.80	0.081	ppbv		26	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.65	0.16	0.078	ppbv		3.5	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.8	0.80	0.055	ppbv		10	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	5.6	0.80	0.13	ppbv		24	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	2.0	0.80	0.077	ppbv		8.7	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	7.6	0.80	0.077	ppbv		33	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

**Appendix B
Chain of Custody**



CHAIN OF CUSTODY

Air Sampling Field Data Sheet

A.R

FED EX Tracking #

Lab Quota #

11P-9/9/2013-33

5B48053

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Client / Reporting Information				Weather Parameters				Requested Analysis									
Company Name Ca Rich Consultants, LLC				Project Name Former Zoe Chemical				Temperature (Fahrenheit)		Standard TO-15 Reporting List							
Address 17 DuPont Street				City New Hyde Park NY				Start: Maximum:									
City Plainville NY 12033				State NY				Stop: Minimum:									
Project Contact Jessica Prose				Project #				Atmospheric Pressure (inches of Hg)									
Phone # 516-576-8844				Client Purchase Order #				Start: Maximum:									
Fax #				Other weather comment:				Stop: Minimum:									
Sampler(s) Name(s) Jessica Prose																	
Lab Sample #	Field ID / Point of Collection	Air Type		Sampling Equipment Info			Start Sampling Information			Stop Sampling Information							
		Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.		
1	JA-1	I	A272	CL	FC119	9/19/13	7:30	30	60	JP	9/19/13	7:30	10	75	JP	X	
2	AA-1	A	A345	CL	FC347	9/19/13	7:30	30	60	JP	9/19/13	7:30	6	75	JP	X	
3	SV-1	SV	A451	CL	FC196	9/19/13	8:18	30	60	JP	9/19/13	10:45	3	75	JP	X	
4	SV-2	SV	A1055	CL	FC364	9/19/13	8:15	30	60	JP	9/19/13	10:46	2	75	JP	X	
5	SV-3	SV	A574	CL	FC487	9/19/13	8:10	30	60	JP	9/19/13	10:38	4	75	JP	X	
6	SV-4	SV	A849	CL	FC524	9/19/13	8:25	30	60	JP	9/19/13	10:50	4	75	JP	X	
7	SV-X	SV	A902	CL	FC109	9/19/13	-	30	60	JP	9/19/13	-	3	75	JP	X	
8	SSV-1	SV	A373	CL	FC322	9/19/13	8:30	30	60	JP	9/19/13	10:53	3	75	JP	X	
9	SSV-2	SV	A1064	CL	FC525	9/19/13	8:27	30	60	JP	9/19/13	11:05	4	75	JP	X	
10	SSV-3	SV	A247	CL	FC268	9/19/13	8:34	30	60	JP	9/19/13	11	4	75	JP	X	
Turnaround Time (Business days) Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other				Approved By: _____ Date: _____				Data Deliverable Information All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: M/ASPB				Comments / Remarks SUMMA					
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Lab/Client		Date/Time		Received By:		Relinquished By:		Date/Time		Received By:		Relinquished by Lab/Client		Date/Time		Received By:	
1 Ray Meadows		9/16/13 14:45		1 Chris Lat		2 Chris Lat		9/20/13 15:40		4 Michael Korth		3 [Signature]		9/20/13		5 [Signature]	
Relinquished by:		Date/Time		Received By:		Relinquished By:		Date/Time		Received By:		Relinquished by Lab/Client		Date/Time		Received By:	
3 [Signature]		9/20/13		5 [Signature]		4 [Signature]		9/20/13 15:40		4 Michael Korth		3 [Signature]		9/20/13		5 [Signature]	
Relinquished by:		Date/Time		Received By:		Relinquished By:		Date/Time		Received By:		Relinquished by Lab/Client		Date/Time		Received By:	
5 [Signature]		9/20/13		5 [Signature]		4 [Signature]		9/20/13 15:40		4 Michael Korth		3 [Signature]		9/20/13		5 [Signature]	

4A

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JB48053: Chain of Custody

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CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #

Lab Code #

Job #

Lab Job #

PAGE 2 OF 2

Company Name Rich Consultants Inc		Project Name Former Zoe Chemical		Weather Parameters		Requested Analysis											
Address 17 DuPont Street		City Plainville State NY Zip 11803		Temperature (Fahrenheit) Start: _____ Maximum: _____ Stop: _____ Minimum: _____													
Project Contact Phone # _____ Fax # _____		Project # Client Purchase Order # _____		Atmospheric Pressure (inches of Hg) Start: _____ Maximum: _____ Stop: _____ Minimum: _____													
Sampler(s) Name(s)		Other weather comment:															
Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info			Start Sampling Information			Stop Sampling Information			Standard TO-15 Reporting List					
		Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size (L or TL)	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date		Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	
11	SSV-4	SV	AWD	GL	FG49	9/19/13	8:37	30	60	JP	9/19/13	10:57	2	75	JP	X	
Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks													
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other		Approved By: _____ Date: _____		All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: NYASPB													
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished By: Ray Mancini	Date/Time: 9/16/13 14:45	Received By: Chris Lant	Date/Time: 9/20/13	Relinquished By: Chris Lant	Date/Time: 9/20/13 15:40	Received By: Chris Lant	Date/Time: 9/20/13 15:40	Relinquished By: Chris Lant	Date/Time: 9/20/13 15:40	Received By: Chris Lant	Date/Time: 9/20/13 15:40	Relinquished By: Chris Lant	Date/Time: 9/20/13 15:40	Received By: Chris Lant	Date/Time: 9/20/13 15:40	Relinquished By: Chris Lant	Date/Time: 9/20/13 15:40

JB48053: Chain of Custody
Page 2 of 3



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB48053

Client: _____

Project: _____

Date / Time Received: 9/20/2013

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Initial/Adjusted): _____

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐

4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: _____
4. No. Coolers: 0

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler: ☐ ☒ ☐
2. Trip Blank listed on COC: ☐ ☒ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☐ ☐ ☒

Comments

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Accutest Laboratories
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Dayton, New Jersey
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JB48053: Chain of Custody
Page 3 of 3

Appendix C
SDG Narrative

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB48053

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 10/2/2013 8:56:24 AM

On 09/20/2013, 11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB48053 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR	Batch ID: V3W1390

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48053-1DUP were used as the QC samples indicated.
- Sample(s) JB48053-1 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- RPD(s) for Duplicate for Tetrachloroethylene are outside control limits for sample JB48053-1DUP. High RPD due to low concentration of hit

Matrix: AIR	Batch ID: V3W1391

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB48194-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB48053-7 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.
- JB48053-5 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: AIR	Batch ID: V3W1392

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48459-2DUP were used as the QC samples indicated.

Matrix: AIR	Batch ID: VW1754

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48053-10DUP were used as the QC samples indicated.
- VW1754-BS for 1,2,4-Trichlorobenzene: High percent recoveries and no associated positive found in the QC batch.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Metals By Method SW846 6010C

Matrix: AQ	Batch ID: MP75431

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49962-2SDL, JB49962-2MS, JB49962-2MSD, JB49962-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Silver, Zinc are outside control limits for sample MP75431-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	Batch ID: MP75428

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49894-8FMS, JB49894-8FMSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



11/05/13

Technical Report for

C. A. Rich Consultants

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Accutest Job Number: JB35522

Sampling Dates: 04/22/13 - 04/25/13

Report to:

C. A. Rich Consultants

jproscia@carichinc.com

ATTN: Jessica Proscia

Total number of pages in report: **125**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

C. A. Rich Consultants

Job No: JB35522

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB35522-1	04/22/13	12:55 JP	04/27/13	SO	Soil	SB-1(0-2 FT)
JB35522-2	04/22/13	13:23 JP	04/27/13	SO	Soil	SB-2(0-2 FT)
JB35522-2D	04/22/13	13:27 JP	04/27/13	SO	Soil Dup/MSD	SB-2 MSD(0-2 FT)
JB35522-2S	04/22/13	13:24 JP	04/27/13	SO	Soil Matrix Spike	SB-2 MS(0-2 FT)
JB35522-3	04/22/13	13:45 JP	04/27/13	SO	Soil	SB-3(0-2 FT)
JB35522-4	04/22/13	14:20 JP	04/27/13	SO	Soil	SB-4(0-2 FT)
JB35522-5	04/22/13	15:00 JP	04/27/13	SO	Soil	SB-5(0-2 FT)
JB35522-6	04/25/13	09:15 JP	04/27/13	SO	Soil	SB-6(8-9 FT)
JB35522-7	04/25/13	09:30 JP	04/27/13	SO	Soil	SB-6(10-11 FT)
JB35522-8	04/22/13	00:00 JP	04/27/13	SO	Soil	SB-X
JB35522-9	04/25/13	09:30 JP	04/27/13	AQ	Trip Blank Soil	TRIP BLANK
JB35522-10	04/23/13	11:55 JP	04/27/13	SO	Soil	SD-1 (1-2 FT)
JB35522-11	04/23/13	12:45 JP	04/27/13	SO	Soil	SD-2 (3-4 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary
(continued)

C. A. Rich Consultants

Job No: JB35522

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
JB35522-12	04/23/13	14:00 JP	04/27/13	AQ Field Blank Soil	FIELD BLANK
JB35522-13	04/25/13	08:22 JP	04/27/13	SO Soil	S1 (7 FT)
JB35522-14	04/25/13	08:30 JP	04/27/13	SO Soil	S2 (5 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB35522

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 6/10/2013 3:09:00 PM

On 04/27/2013, 12 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB35522 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V1C5135

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35073-4MS, JB35073-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Methylene chloride are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 2-Butanone (MEK) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ

Batch ID: V1C5137

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35365-1MS, JB35365-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, Chloroethane, cis-1,2-Dichloroethene are outside control limits. Probable cause due to matrix interference.

Matrix: SO

Batch ID: V3C4351

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzene are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Matrix: SO

Batch ID: V3C4353

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-4MS, JB35522-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Probable cause due to matrix interference.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO

Batch ID: VC6542

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB35475-8MS, JB35475-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB35522-13: confirmation run for surrogate recoveries.

Matrix: SO

Batch ID: VD8512

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35222-1MS, JB35222-1MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for Methylene chloride are outside control limits. Probable cause due to matrix interference.
- JB35522-13 for 4-Bromofluorobenzene: Outside control limits due to matrix interference. Confirmed by reanalysis.

Matrix: SO

Batch ID: VE8920

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35337-1MS, JB35337-1MSD were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-11 Sample analyzed outside the holding time due to scheduling error.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Methylene chloride are outside control limits. Outside control limits due to matrix interference.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Matrix: SO

Batch ID: VY5771

- Sample(s) JB35341-7MS, JB35341-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-8, JB35522-11 Sample analyzed outside the holding time but the original run within holding time.
- JB35522-8: Sample analyzed outside the holding time but the original run within holding time.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Matrix: SO

Batch ID: VY5773

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35702-3MS, JB35702-3MSD were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: JB35522-11 Sample analyzed outside the holding time due to scheduling error.
- JB35522-11: Sample analyzed outside the holding time due to scheduling error.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP65680

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35238-4MS, JB35238-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acetophenone, bis(2-Chloroethyl)ether, Dibenzofuran, Naphthalene are outside control limits. Outside of in house control limits, but within the marginal exceedance limits.

Matrix: AQ

Batch ID: OP65786

- The data for SW846 8270D meets quality control requirements.
- The following samples were extracted outside of holding time for method SW846 8270D: JB35522-12 Original sample was performed within hold time.
- JB35522-12: Confirmation run.

Matrix: SO

Batch ID: OP65702

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits for sample OP65702-MSD. Probable cause due to matrix interference.
- JB35522-10: Confirmation run for internal standard areas.
- JB35522-1 for Terphenyl-d14: Outside control limits due to matrix interference.
- JB35522-6 for Nitrobenzene-d5: Outside control limits due to matrix interference.
- JB35522-7 for Phenol-d5: Outside control limits due to dilution.
- JB35522-6 for Phenol-d5: Outside control limits due to matrix interference.
- JB35522-8 for Nitrobenzene-d5: Outside control limits due to matrix interference.
- JB35522-8 for Phenol-d5: Outside control limits due to matrix interference.
- JB35522-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JB35522-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JB35522-1 for 2-Fluorophenol: Outside control limits due to dilution.
- JB35522-1 for Nitrobenzene-d5: Outside control limits due to dilution.
- JB35522-1 for Phenol-d5: Outside control limits due to dilution.
- JB35522-1 for Terphenyl-d14: Outside control limits due to dilution.
- JB35522-7 for Nitrobenzene-d5: Outside control limits due to dilution.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP65661

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Toxaphene are outside control limits.
- Sample(s) JB35522-6, JB35522-7, JB35522-8, JB35522-11, JB35522-6 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix: SO

Batch ID: OP65674

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples indicated.
- JB35522-8 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-8 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB35522-8 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-8 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-7 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB35522-7 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-11 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-8 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-10 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-1 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-10 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB35522-1 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP65660

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35238-4MS, JB35238-4MSD, OP65660-MSMSD were used as the QC samples indicated.

Matrix: SO

Batch ID: OP65675

- All samples were extracted within the recommended method holding time.
- Sample(s) JB35522-2MS, JB35522-2MSD, OP65675-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB35522-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB35522-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB35522-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP71722

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35530-21MS, JB35530-21MSD, JB35530-21SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Iron, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Aluminum, Arsenic, Chromium, Lead, Nickel, Silver, Vanadium, Zinc are outside control limits for sample MP71722-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO

Batch ID: MP71771

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD, JB35522-2PS, JB35522-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Manganese, Magnesium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Calcium, Magnesium are outside control limits for sample MP71771-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Selenium, Silver are outside control limits for sample MP71771-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP71675

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35530-21MS, JB35530-21MSD were used as the QC samples for metals.

Metals By Method SW846 7471B**Matrix:** SO**Batch ID:** MP71740

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB35522-2MS, JB35522-2MSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97**Matrix:** SO**Batch ID:** GN84542

- The data for SM2540 G-97 meets quality control requirements.

Matrix: SO**Batch ID:** GN84549

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB35522-1	SB-1(0-2 FT)					
1,1-Dichloroethane		2.6 J	6.1	0.17	ug/kg	SW846 8260B
cis-1,2-Dichloroethene		0.28 J	6.1	0.22	ug/kg	SW846 8260B
Methylene chloride		4.3 J	6.1	1.5	ug/kg	SW846 8260B
Tetrachloroethene		5.9 J	6.1	0.21	ug/kg	SW846 8260B
Toluene		0.31 J	1.2	0.13	ug/kg	SW846 8260B
1,1,1-Trichloroethane		6.8	6.1	0.13	ug/kg	SW846 8260B
Trichloroethene		0.63 J	6.1	0.21	ug/kg	SW846 8260B
Phenol		540	66	35	ug/kg	SW846 8270D
Acenaphthylene		18.4 J	33	11	ug/kg	SW846 8270D
Anthracene		18.2 J	33	12	ug/kg	SW846 8270D
Benzo(a)anthracene		117	33	11	ug/kg	SW846 8270D
Benzo(a)pyrene		79.7	33	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene		72.1	33	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		72.9	33	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		67.2	33	12	ug/kg	SW846 8270D
Butyl benzyl phthalate		163	66	19	ug/kg	SW846 8270D
Chrysene		182	33	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		18.7 J	33	11	ug/kg	SW846 8270D
Di-n-butyl phthalate		340	66	7.4	ug/kg	SW846 8270D
Di-n-octyl phthalate		49.1 J	66	16	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		588000	66000	29000	ug/kg	SW846 8270D
Fluoranthene		121	33	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		50.3	33	11	ug/kg	SW846 8270D
Phenanthrene		61.0	33	15	ug/kg	SW846 8270D
Pyrene		259	33	13	ug/kg	SW846 8270D
alpha-Chlordane ^a		1.3	0.69	0.26	ug/kg	SW846 8081B
gamma-Chlordane ^a		2.0	0.69	0.48	ug/kg	SW846 8081B
4,4' -DDD		2.0	0.69	0.38	ug/kg	SW846 8081B
4,4' -DDE		2.4	0.69	0.28	ug/kg	SW846 8081B
4,4' -DDT ^a		6.7	0.69	0.34	ug/kg	SW846 8081B
Aluminum		9210	55		mg/kg	SW846 6010C
Arsenic		6.2	2.2		mg/kg	SW846 6010C
Barium		112	22		mg/kg	SW846 6010C
Beryllium		0.53	0.22		mg/kg	SW846 6010C
Cadmium		15.9	0.55		mg/kg	SW846 6010C
Calcium		21800	550		mg/kg	SW846 6010C
Chromium		19.9	1.1		mg/kg	SW846 6010C
Copper		736	2.7		mg/kg	SW846 6010C
Iron		24700	55		mg/kg	SW846 6010C
Lead		82.2	2.2		mg/kg	SW846 6010C
Magnesium		4030	550		mg/kg	SW846 6010C
Manganese		451	1.6		mg/kg	SW846 6010C
Mercury		0.32	0.033		mg/kg	SW846 7471B

Summary of Hits

Job Number: JB35522**Account:** C. A. Rich Consultants**Project:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY**Collected:** 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		17.5	4.4		mg/kg	SW846 6010C
Silver		1.2	0.55		mg/kg	SW846 6010C
Vanadium		19.3	5.5		mg/kg	SW846 6010C
Zinc		416	2.2		mg/kg	SW846 6010C

JB35522-2 SB-2(0-2 FT)

1,1-Dichloroethane	0.28 J	5.9	0.16	ug/kg	SW846 8260B
Methylene chloride	3.8 J	5.9	1.5	ug/kg	SW846 8260B
Tetrachloroethene	0.68 J	5.9	0.20	ug/kg	SW846 8260B
Toluene	0.71 J	1.2	0.12	ug/kg	SW846 8260B
1,1,1-Trichloroethane	1.2 J	5.9	0.12	ug/kg	SW846 8260B
Trichloroethene	0.86 J	5.9	0.21	ug/kg	SW846 8260B
m,p-Xylene	0.50 J	1.2	0.21	ug/kg	SW846 8260B
Xylene (total)	0.50 J	1.2	0.16	ug/kg	SW846 8260B
Benzo(a)anthracene	16.6 J	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene	26.7 J	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	28.0 J	34	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	34.5	34	13	ug/kg	SW846 8270D
Chrysene	41.0	34	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	349	68	30	ug/kg	SW846 8270D
Fluoranthene	18.6 J	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	18.9 J	34	12	ug/kg	SW846 8270D
Pyrene	27.1 J	34	13	ug/kg	SW846 8270D
4,4'-DDT	1.4	0.68	0.34	ug/kg	SW846 8081B
Aluminum	3680	52		mg/kg	SW846 6010C
Arsenic	2.4	2.1		mg/kg	SW846 6010C
Barium	29.1	21		mg/kg	SW846 6010C
Calcium	6950	520		mg/kg	SW846 6010C
Chromium	10.3	1.0		mg/kg	SW846 6010C
Cobalt	6.6	5.2		mg/kg	SW846 6010C
Copper	7.1	2.6		mg/kg	SW846 6010C
Iron	6610	52		mg/kg	SW846 6010C
Lead	10.6	2.1		mg/kg	SW846 6010C
Magnesium	3850	520		mg/kg	SW846 6010C
Manganese	352	1.6		mg/kg	SW846 6010C
Nickel	7.0	4.2		mg/kg	SW846 6010C
Vanadium	10.7	5.2		mg/kg	SW846 6010C
Zinc	26.4	2.1		mg/kg	SW846 6010C

JB35522-3 SB-3(0-2 FT)

Methylene chloride	3.5 J	5.8	1.5	ug/kg	SW846 8260B
1,1,1-Trichloroethane	1.1 J	5.8	0.12	ug/kg	SW846 8260B
Trichloroethene	0.30 J	5.8	0.20	ug/kg	SW846 8260B

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthylene		121	34	11	ug/kg	SW846 8270D
Anthracene		80.3	34	12	ug/kg	SW846 8270D
Benzo(a)anthracene		149	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene		191	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene		161	34	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		224	34	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		156	34	13	ug/kg	SW846 8270D
Chrysene		179	34	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		54.7	34	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		132	67	30	ug/kg	SW846 8270D
Fluoranthene		214	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		152	34	12	ug/kg	SW846 8270D
Naphthalene		17.8 J	34	9.2	ug/kg	SW846 8270D
Phenanthrene		113	34	15	ug/kg	SW846 8270D
Pyrene		312	34	13	ug/kg	SW846 8270D
alpha-Chlordane		1.1	0.68	0.25	ug/kg	SW846 8081B
gamma-Chlordane		0.77	0.68	0.47	ug/kg	SW846 8081B
Aluminum		4740	50		mg/kg	SW846 6010C
Arsenic		2.1	2.0		mg/kg	SW846 6010C
Barium		32.9	20		mg/kg	SW846 6010C
Calcium		5950	500		mg/kg	SW846 6010C
Chromium		7.9	1.0		mg/kg	SW846 6010C
Copper		11.6	2.5		mg/kg	SW846 6010C
Iron		8900	50		mg/kg	SW846 6010C
Lead		22.5	2.0		mg/kg	SW846 6010C
Magnesium		1180	500		mg/kg	SW846 6010C
Manganese		228	1.5		mg/kg	SW846 6010C
Nickel		9.2	4.0		mg/kg	SW846 6010C
Vanadium		9.7	5.0		mg/kg	SW846 6010C
Zinc		26.6	2.0		mg/kg	SW846 6010C

JB35522-4 SB-4(0-2 FT)

Acetone	13.0	13	2.1	ug/kg	SW846 8260B
Methylene chloride	2.6 J	6.3	1.6	ug/kg	SW846 8260B
1,1,1-Trichloroethane	0.64 J	6.3	0.13	ug/kg	SW846 8260B
Acenaphthylene	26.7 J	34	11	ug/kg	SW846 8270D
Anthracene	22.2 J	34	12	ug/kg	SW846 8270D
Benzo(a)anthracene	51.7	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene	53.5	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	42.4	34	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	43.9	34	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene	32.6 J	34	13	ug/kg	SW846 8270D
Chrysene	63.3	34	12	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	346	68	30	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluoranthene		74.0	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		30.6 J	34	12	ug/kg	SW846 8270D
Phenanthrene		43.6	34	16	ug/kg	SW846 8270D
Pyrene		115	34	13	ug/kg	SW846 8270D
4,4'-DDD		1.4	0.73	0.40	ug/kg	SW846 8081B
4,4'-DDE		0.82	0.73	0.29	ug/kg	SW846 8081B
4,4'-DDT		4.0	0.73	0.36	ug/kg	SW846 8081B
Aluminum		6270	55		mg/kg	SW846 6010C
Arsenic		2.8	2.2		mg/kg	SW846 6010C
Barium		42.0	22		mg/kg	SW846 6010C
Beryllium		0.23	0.22		mg/kg	SW846 6010C
Calcium		9640	550		mg/kg	SW846 6010C
Chromium		10	1.1		mg/kg	SW846 6010C
Copper		19.2	2.8		mg/kg	SW846 6010C
Iron		10300	55		mg/kg	SW846 6010C
Lead		25.2	2.2		mg/kg	SW846 6010C
Magnesium		2860	550		mg/kg	SW846 6010C
Manganese		206	1.7		mg/kg	SW846 6010C
Nickel		10.0	4.4		mg/kg	SW846 6010C
Silver		0.85	0.55		mg/kg	SW846 6010C
Vanadium		11.5	5.5		mg/kg	SW846 6010C
Zinc		36.0	2.2		mg/kg	SW846 6010C

JB35522-5 SB-5(0-2 FT)

Acetone	14.2	12	2.1	ug/kg	SW846 8260B
1,1-Dichloroethane	3.4 J	6.1	0.17	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	1.3 J	6.1	0.22	ug/kg	SW846 8260B
Methylene chloride	3.6 J	6.1	1.5	ug/kg	SW846 8260B
Tetrachloroethene	2.5 J	6.1	0.21	ug/kg	SW846 8260B
Toluene	0.54 J	1.2	0.13	ug/kg	SW846 8260B
1,1,1-Trichloroethane	8.5	6.1	0.13	ug/kg	SW846 8260B
Trichloroethene	9.2	6.1	0.21	ug/kg	SW846 8260B
m,p-Xylene	0.35 J	1.2	0.21	ug/kg	SW846 8260B
Xylene (total)	0.35 J	1.2	0.17	ug/kg	SW846 8260B
Acenaphthylene	72.3	33	10	ug/kg	SW846 8270D
Anthracene	50.9	33	11	ug/kg	SW846 8270D
Benzo(a)anthracene	123	33	11	ug/kg	SW846 8270D
Benzo(a)pyrene	161	33	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	145	33	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	173	33	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene	128	33	12	ug/kg	SW846 8270D
Carbazole	15.9 J	66	15	ug/kg	SW846 8270D
Chrysene	140	33	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	42.7	33	11	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
bis(2-Ethylhexyl)phthalate		243	66	29	ug/kg	SW846 8270D
Fluoranthene		189	33	14	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		129	33	11	ug/kg	SW846 8270D
Phenanthrene		93.9	33	15	ug/kg	SW846 8270D
Pyrene		205	33	13	ug/kg	SW846 8270D
alpha-Chlordane		24.9	0.70	0.26	ug/kg	SW846 8081B
gamma-Chlordane		31.8	0.70	0.48	ug/kg	SW846 8081B
Dieldrin		8.8	0.70	0.27	ug/kg	SW846 8081B
4,4' -DDE		0.71	0.70	0.28	ug/kg	SW846 8081B
4,4' -DDT		5.8	0.70	0.35	ug/kg	SW846 8081B
Aluminum		9770	53		mg/kg	SW846 6010C
Arsenic		6.4	2.1		mg/kg	SW846 6010C
Barium		67.1	21		mg/kg	SW846 6010C
Beryllium		0.62	0.21		mg/kg	SW846 6010C
Calcium		27600	530		mg/kg	SW846 6010C
Chromium		32.4	1.1		mg/kg	SW846 6010C
Copper		39.6	2.7		mg/kg	SW846 6010C
Iron		15900	53		mg/kg	SW846 6010C
Lead		187	2.1		mg/kg	SW846 6010C
Magnesium		2760	530		mg/kg	SW846 6010C
Manganese		199	1.6		mg/kg	SW846 6010C
Mercury		0.066	0.034		mg/kg	SW846 7471B
Nickel		17.2	4.3		mg/kg	SW846 6010C
Potassium		1130	1100		mg/kg	SW846 6010C
Silver		0.90	0.53		mg/kg	SW846 6010C
Vanadium		27.5	5.3		mg/kg	SW846 6010C
Zinc		159	2.1		mg/kg	SW846 6010C

JB35522-6 SB-6(8-9 FT)

Benzene	290 J	440	52	ug/kg	SW846 8260B
Chloroethane	4120	2200	100	ug/kg	SW846 8260B
Cyclohexane	786 J	2200	54	ug/kg	SW846 8260B
1,1-Dichloroethane	3330	2200	60	ug/kg	SW846 8260B
1,1-Dichloroethene	345 J	2200	110	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	545 J	2200	80	ug/kg	SW846 8260B
Ethylbenzene	35800	440	120	ug/kg	SW846 8260B
Isopropylbenzene	12100	2200	33	ug/kg	SW846 8260B
Methylcyclohexane	805 J	2200	74	ug/kg	SW846 8260B
Methylene chloride	763 J	2200	560	ug/kg	SW846 8260B
Tetrachloroethene	2390	2200	76	ug/kg	SW846 8260B
Toluene	30300	440	46	ug/kg	SW846 8260B
1,1,1-Trichloroethane	8210	2200	47	ug/kg	SW846 8260B
Trichloroethene	2850	2200	76	ug/kg	SW846 8260B
Vinyl chloride	159 J	2200	63	ug/kg	SW846 8260B

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		73900	440	76	ug/kg	SW846 8260B
o-Xylene		23800	440	61	ug/kg	SW846 8260B
Xylene (total)		97600	440	61	ug/kg	SW846 8260B
Pentachlorophenol		392 J	500	85	ug/kg	SW846 8270D
Butyl benzyl phthalate		3670	100	29	ug/kg	SW846 8270D
Carbazole		487	100	23	ug/kg	SW846 8270D
Di-n-butyl phthalate		215000	5000	550	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		8020	400	180	ug/kg	SW846 8270D
Fluoranthene		55.9	50	22	ug/kg	SW846 8270D
Fluorene		50.2	50	16	ug/kg	SW846 8270D
Naphthalene		1550	50	14	ug/kg	SW846 8270D
Phenanthrene		160	50	23	ug/kg	SW846 8270D
Pyrene		63.4	50	19	ug/kg	SW846 8270D
alpha-Chlordane ^a		16900	510	190	ug/kg	SW846 8081B
gamma-Chlordane		20100	510	350	ug/kg	SW846 8081B
Dieldrin		16700	510	200	ug/kg	SW846 8081B
Aluminum		3500	50		mg/kg	SW846 6010C
Arsenic		2.7	2.0		mg/kg	SW846 6010C
Barium		46.8	20		mg/kg	SW846 6010C
Cadmium		0.66	0.50		mg/kg	SW846 6010C
Calcium		16100	500		mg/kg	SW846 6010C
Chromium		18.3	1.0		mg/kg	SW846 6010C
Copper		46.3	2.5		mg/kg	SW846 6010C
Iron		3190	50		mg/kg	SW846 6010C
Lead		73.2	2.0		mg/kg	SW846 6010C
Magnesium		760	500		mg/kg	SW846 6010C
Manganese		48.5	1.5		mg/kg	SW846 6010C
Mercury		36.7	2.4		mg/kg	SW846 7471B
Nickel		9.3	4.0		mg/kg	SW846 6010C
Vanadium		8.5	5.0		mg/kg	SW846 6010C
Zinc		178	2.0		mg/kg	SW846 6010C

JB35522-7 SB-6(10-11 FT)

Chloroethane	253 J	620	28	ug/kg	SW846 8260B
Cyclohexane	139 J	620	15	ug/kg	SW846 8260B
1,1-Dichloroethane	356 J	620	17	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	174 J	620	23	ug/kg	SW846 8260B
Ethylbenzene	2630	120	33	ug/kg	SW846 8260B
Isopropylbenzene	1460	620	9.2	ug/kg	SW846 8260B
Methylcyclohexane	156 J	620	21	ug/kg	SW846 8260B
Methylene chloride	416 J	620	160	ug/kg	SW846 8260B
Tetrachloroethene	409 J	620	21	ug/kg	SW846 8260B
Toluene	3190	120	13	ug/kg	SW846 8260B
1,1,1-Trichloroethane	1240	620	13	ug/kg	SW846 8260B

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene		834	620	22	ug/kg	SW846 8260B
m,p-Xylene		5350	120	22	ug/kg	SW846 8260B
o-Xylene		2270	120	17	ug/kg	SW846 8260B
Xylene (total)		7620	120	17	ug/kg	SW846 8260B
Pentachlorophenol		82.1 J	360	62	ug/kg	SW846 8270D
Butyl benzyl phthalate		1340	72	21	ug/kg	SW846 8270D
1,1'-Biphenyl		294	72	4.2	ug/kg	SW846 8270D
Di-n-butyl phthalate		65400	3600	400	ug/kg	SW846 8270D
Diethyl phthalate		181	72	12	ug/kg	SW846 8270D
Dimethyl phthalate		48.2 J	72	13	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		2910	72	32	ug/kg	SW846 8270D
Fluoranthene		40.8	36	16	ug/kg	SW846 8270D
Fluorene		26.2 J	36	12	ug/kg	SW846 8270D
2-Methylnaphthalene		647	72	20	ug/kg	SW846 8270D
Naphthalene		1040	36	9.9	ug/kg	SW846 8270D
Phenanthrene		96.4	36	16	ug/kg	SW846 8270D
Pyrene		69.5	36	14	ug/kg	SW846 8270D
Aldrin		1470	71	33	ug/kg	SW846 8081B
alpha-Chlordane ^a		2120	71	26	ug/kg	SW846 8081B
gamma-Chlordane		2600	71	49	ug/kg	SW846 8081B
Dieldrin		2220	71	28	ug/kg	SW846 8081B
Aluminum		4190	59		mg/kg	SW846 6010C
Calcium		3970	590		mg/kg	SW846 6010C
Chromium		8.9	1.2		mg/kg	SW846 6010C
Copper		8.1	2.9		mg/kg	SW846 6010C
Iron		5620	59		mg/kg	SW846 6010C
Lead		31.8	2.3		mg/kg	SW846 6010C
Magnesium		729	590		mg/kg	SW846 6010C
Manganese		78.4	1.8		mg/kg	SW846 6010C
Mercury		0.98	0.071		mg/kg	SW846 7471B
Nickel		5.7	4.7		mg/kg	SW846 6010C
Vanadium		9.6	5.9		mg/kg	SW846 6010C
Zinc		33.5	2.3		mg/kg	SW846 6010C

JB35522-8 SB-X

Benzene ^b	29.2 J	130	15	ug/kg	SW846 8260B
Chloroethane ^b	315 J	630	29	ug/kg	SW846 8260B
1,1-Dichloroethane ^b	74.6 J	630	17	ug/kg	SW846 8260B
Ethylbenzene ^b	1840	130	33	ug/kg	SW846 8260B
Isopropylbenzene ^b	926	630	9.4	ug/kg	SW846 8260B
Methylcyclohexane ^b	118 J	630	21	ug/kg	SW846 8260B
Tetrachloroethene ^b	50.0 J	630	22	ug/kg	SW846 8260B
Toluene ^b	633	130	13	ug/kg	SW846 8260B
1,1,1-Trichloroethane ^b	273 J	630	13	ug/kg	SW846 8260B

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene ^b		86.9 J	630	22	ug/kg	SW846 8260B
m,p-Xylene ^b		3390	130	22	ug/kg	SW846 8260B
o-Xylene ^b		699	130	18	ug/kg	SW846 8260B
Xylene (total) ^b		4090	130	18	ug/kg	SW846 8260B
Acenaphthylene		181	35	11	ug/kg	SW846 8270D
Anthracene		221	35	12	ug/kg	SW846 8270D
Benzo(a)anthracene		544	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		465	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		456	35	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		317	35	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		410	35	13	ug/kg	SW846 8270D
1,1'-Biphenyl		199	70	4.1	ug/kg	SW846 8270D
Carbazole		36.1 J	70	16	ug/kg	SW846 8270D
Chrysene		589	35	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		123	35	12	ug/kg	SW846 8270D
Dibenzofuran		22.0 J	70	10	ug/kg	SW846 8270D
Di-n-butyl phthalate		2190	280	31	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		2190	70	31	ug/kg	SW846 8270D
Fluoranthene		765	35	15	ug/kg	SW846 8270D
Fluorene		40.7	35	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		301	35	12	ug/kg	SW846 8270D
2-Methylnaphthalene		421	70	20	ug/kg	SW846 8270D
Naphthalene		477	35	9.6	ug/kg	SW846 8270D
Phenanthrene		492	35	16	ug/kg	SW846 8270D
Pyrene		851	35	13	ug/kg	SW846 8270D
Aldrin		4220	72	33	ug/kg	SW846 8081B
alpha-Chlordane ^a		3110	72	27	ug/kg	SW846 8081B
gamma-Chlordane		3050	72	50	ug/kg	SW846 8081B
Dieldrin		1370	72	28	ug/kg	SW846 8081B
Endrin ketone		55.1	0.72	0.29	ug/kg	SW846 8081B
Aluminum		8420	55		mg/kg	SW846 6010C
Arsenic		3.3	2.2		mg/kg	SW846 6010C
Barium		31.6	22		mg/kg	SW846 6010C
Beryllium		0.34	0.22		mg/kg	SW846 6010C
Calcium		1240	550		mg/kg	SW846 6010C
Chromium		12.6	1.1		mg/kg	SW846 6010C
Copper		25.8	2.7		mg/kg	SW846 6010C
Iron		9530	55		mg/kg	SW846 6010C
Lead		41.6	2.2		mg/kg	SW846 6010C
Magnesium		1200	550		mg/kg	SW846 6010C
Manganese		221	1.6		mg/kg	SW846 6010C
Mercury		0.27	0.037		mg/kg	SW846 7471B
Nickel		10.1	4.4		mg/kg	SW846 6010C
Vanadium		15.0	5.5		mg/kg	SW846 6010C
Zinc		50.3	2.2		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB35522
Account: C. A. Rich Consultants
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY
Collected: 04/22/13 thru 04/25/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

JB35522-9 TRIP BLANK

No hits reported in this sample.

JB35522-10 SD-1 (1-2 FT)

Acetone	31.8	15	2.5	ug/kg	SW846 8260B
Carbon disulfide	0.67 J	7.5	0.18	ug/kg	SW846 8260B
Chloroethane	1.1 J	7.5	0.34	ug/kg	SW846 8260B
1,1-Dichloroethane	9.3	7.5	0.21	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	0.35 J	7.5	0.27	ug/kg	SW846 8260B
Methylene chloride	3.0 J	7.5	1.9	ug/kg	SW846 8260B
Toluene	0.40 J	1.5	0.16	ug/kg	SW846 8260B
1,1,1-Trichloroethane	52.1	7.5	0.16	ug/kg	SW846 8260B
Trichloroethene	0.80 J	7.5	0.26	ug/kg	SW846 8260B
Acenaphthylene	46.9	40	13	ug/kg	SW846 8270D
Anthracene	64.4	40	14	ug/kg	SW846 8270D
Benzo(a)anthracene	204	40	13	ug/kg	SW846 8270D
Benzo(a)pyrene	271	40	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	346	40	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	262	40	15	ug/kg	SW846 8270D
Benzo(k)fluoranthene	280	40	15	ug/kg	SW846 8270D
Butyl benzyl phthalate	407	80	23	ug/kg	SW846 8270D
Carbazole	43.0 J	80	18	ug/kg	SW846 8270D
Chrysene	438	40	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	60.8	40	14	ug/kg	SW846 8270D
Di-n-butyl phthalate	409	80	8.8	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	2420	80	35	ug/kg	SW846 8270D
Fluoranthene	513	40	18	ug/kg	SW846 8270D
Fluorene	26.0 J	40	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	196	40	14	ug/kg	SW846 8270D
Phenanthrene	242	40	18	ug/kg	SW846 8270D
Pyrene	654	40	15	ug/kg	SW846 8270D
alpha-Chlordane ^a	11.8	0.85	0.32	ug/kg	SW846 8081B
gamma-Chlordane ^a	17.1	0.85	0.59	ug/kg	SW846 8081B
Dieldrin	7.2	0.85	0.33	ug/kg	SW846 8081B
4,4'-DDD ^a	1.1	0.85	0.47	ug/kg	SW846 8081B
4,4'-DDE ^a	2.7	0.85	0.34	ug/kg	SW846 8081B
4,4'-DDT ^a	2.2	0.85	0.42	ug/kg	SW846 8081B
Aluminum	4800	50		mg/kg	SW846 6010C
Arsenic	3.0	2.0		mg/kg	SW846 6010C
Barium	44.5	20		mg/kg	SW846 6010C
Beryllium	0.43	0.20		mg/kg	SW846 6010C
Cadmium	1.9	0.50		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Calcium		9800	500		mg/kg	SW846 6010C
Chromium		22.5	0.99		mg/kg	SW846 6010C
Copper		155	2.5		mg/kg	SW846 6010C
Iron		19200	50		mg/kg	SW846 6010C
Lead		55.6	2.0		mg/kg	SW846 6010C
Magnesium		3750	500		mg/kg	SW846 6010C
Manganese		151	1.5		mg/kg	SW846 6010C
Mercury		0.30	0.044		mg/kg	SW846 7471B
Nickel		21.4	4.0		mg/kg	SW846 6010C
Silver		0.90	0.50		mg/kg	SW846 6010C
Vanadium		37.6	5.0		mg/kg	SW846 6010C
Zinc		459	2.0		mg/kg	SW846 6010C

JB35522-11 SD-2 (3-4 FT)

Chloroethane ^c	31900	15000	670	ug/kg	SW846 8260B
Chloroform ^c	62.9 J	590	9.7	ug/kg	SW846 8260B
1,1-Dichloroethane ^c	172000	15000	400	ug/kg	SW846 8260B
1,2-Dichloroethane ^c	305	120	16	ug/kg	SW846 8260B
1,1-Dichloroethene ^c	59600	15000	750	ug/kg	SW846 8260B
cis-1,2-Dichloroethene ^c	543 J	590	22	ug/kg	SW846 8260B
Ethylbenzene ^c	807	120	31	ug/kg	SW846 8260B
Isopropylbenzene ^c	253 J	590	8.7	ug/kg	SW846 8260B
Methyl Acetate ^c	2670	590	310	ug/kg	SW846 8260B
Tetrachloroethene ^c	23400	590	20	ug/kg	SW846 8260B
Toluene ^c	58000	2900	310	ug/kg	SW846 8260B
1,1,1-Trichloroethane ^c	9290000	1500000	31000	ug/kg	SW846 8260B
Trichloroethene ^c	88800	15000	510	ug/kg	SW846 8260B
Trichlorofluoromethane ^c	155 J	590	35	ug/kg	SW846 8260B
Vinyl chloride ^c	314 J	590	17	ug/kg	SW846 8260B
m,p-Xylene ^c	2460	120	20	ug/kg	SW846 8260B
o-Xylene ^c	1230	120	16	ug/kg	SW846 8260B
Xylene (total) ^c	3690	120	16	ug/kg	SW846 8260B
Benzo(b)fluoranthene	207 J	220	74	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	117 J	220	83	ug/kg	SW846 8270D
Butyl benzyl phthalate	318 J	450	130	ug/kg	SW846 8270D
Chrysene	310	220	75	ug/kg	SW846 8270D
Di-n-butyl phthalate	4480	450	49	ug/kg	SW846 8270D
Di-n-octyl phthalate	391 J	450	110	ug/kg	SW846 8270D
Diethyl phthalate	624	450	76	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	9220	450	200	ug/kg	SW846 8270D
Fluoranthene	207 J	220	98	ug/kg	SW846 8270D
2-Methylnaphthalene	143 J	450	120	ug/kg	SW846 8270D
Naphthalene	161 J	220	61	ug/kg	SW846 8270D
Phenanthrene	399	220	100	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		185 J	220	85	ug/kg	SW846 8270D
alpha-Chlordane		62.3	1.1	0.39	ug/kg	SW846 8081B
gamma-Chlordane ^a		86.8	1.1	0.73	ug/kg	SW846 8081B
Dieldrin		38.8	1.1	0.41	ug/kg	SW846 8081B
Aluminum		5170	50		mg/kg	SW846 6010C
Arsenic		3.1	2.0		mg/kg	SW846 6010C
Barium		63.4	20		mg/kg	SW846 6010C
Beryllium		0.29	0.20		mg/kg	SW846 6010C
Cadmium		1.5	0.50		mg/kg	SW846 6010C
Calcium		29300	500		mg/kg	SW846 6010C
Chromium		21.7	1.0		mg/kg	SW846 6010C
Copper		256	2.5		mg/kg	SW846 6010C
Iron		13600	50		mg/kg	SW846 6010C
Lead		114	2.0		mg/kg	SW846 6010C
Magnesium		2830	500		mg/kg	SW846 6010C
Manganese		175	1.5		mg/kg	SW846 6010C
Mercury		0.60	0.051		mg/kg	SW846 7471B
Nickel		12.6	4.0		mg/kg	SW846 6010C
Silver		0.74	0.50		mg/kg	SW846 6010C
Vanadium		20.3	5.0		mg/kg	SW846 6010C
Zinc		269	2.0		mg/kg	SW846 6010C

JB35522-12 FIELD BLANK

No hits reported in this sample.

JB35522-13 S1 (7 FT)

Benzene	13.1 J	63	7.5	ug/kg	SW846 8260B
Chloroethane	736	320	14	ug/kg	SW846 8260B
Cyclohexane	137 J	320	7.8	ug/kg	SW846 8260B
1,1-Dichloroethane	30.9 J	320	8.7	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	24.9 J	320	12	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	34.4 J	320	15	ug/kg	SW846 8260B
Ethylbenzene	8880	63	17	ug/kg	SW846 8260B
Isopropylbenzene	3200	320	4.7	ug/kg	SW846 8260B
Methyl Acetate	388	320	160	ug/kg	SW846 8260B
Methylcyclohexane	142 J	320	11	ug/kg	SW846 8260B
Tetrachloroethene	61.9 J	320	11	ug/kg	SW846 8260B
Toluene	1260	63	6.6	ug/kg	SW846 8260B
1,1,1-Trichloroethane	354	320	6.7	ug/kg	SW846 8260B
Trichloroethene	60.3 J	320	11	ug/kg	SW846 8260B
m,p-Xylene	14300	63	11	ug/kg	SW846 8260B
o-Xylene	3510	63	8.8	ug/kg	SW846 8260B
Xylene (total)	17800	63	8.8	ug/kg	SW846 8260B

Summary of Hits

Job Number: JB35522

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 04/22/13 thru 04/25/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

JB35522-14 S2 (5 FT)

1,1-Dichloroethane	9.7	6.3	0.17	ug/kg	SW846 8260B
1,2-Dichloroethane	0.44 J	1.3	0.17	ug/kg	SW846 8260B
1,1-Dichloroethene	0.49 J	6.3	0.32	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	0.32 J	6.3	0.23	ug/kg	SW846 8260B
Methyl Acetate	8.5	6.3	3.3	ug/kg	SW846 8260B
Methylene chloride	3.7 J	6.3	1.6	ug/kg	SW846 8260B
Tetrachloroethene	12.6	6.3	0.22	ug/kg	SW846 8260B
Toluene	0.33 J	1.3	0.13	ug/kg	SW846 8260B
1,1,1-Trichloroethane	1110	310	6.7	ug/kg	SW846 8260B
1,1,2-Trichloroethane	0.43 J	6.3	0.22	ug/kg	SW846 8260B
Trichloroethene	8.9	6.3	0.22	ug/kg	SW846 8260B

- (a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Sample analyzed outside the holding time but the original run within holding time.
(c) Sample analyzed outside the holding time due to scheduling error.

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98058.D	1	05/01/13	JTP	n/a	n/a	V3C4351
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	0.13	ug/kg	
75-25-2	Bromoform	ND	6.1	0.18	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.1	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.27	ug/kg	
67-66-3	Chloroform	ND	6.1	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.1	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.1	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.1	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.1	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.1	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	2.6	6.1	0.17	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.1	0.31	ug/kg	
156-59-2	cis-1,2-Dichloroethene	0.28	6.1	0.22	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	6.1	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	72	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.32	ug/kg	
76-13-1	Freon 113	ND	6.1	0.52	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.1	0.75	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	0.090	ug/kg	
79-20-9	Methyl Acetate	ND	6.1	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	6.1	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	0.91	ug/kg	
75-09-2	Methylene chloride	4.3	6.1	1.5	ug/kg	J
100-42-5	Styrene	ND	6.1	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	0.16	ug/kg	
127-18-4	Tetrachloroethene	5.9	6.1	0.21	ug/kg	J
108-88-3	Toluene	0.31	1.2	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	6.8	6.1	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	0.21	ug/kg	
79-01-6	Trichloroethene	0.63	6.1	0.21	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.1	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.21	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	78%		70-122%
2037-26-5	Toluene-D8	94%		81-127%
460-00-4	4-Bromofluorobenzene	87%		66-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50287.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2	3E50316.D	1000	05/21/13	NAP	05/01/13	OP65702	E3E2176

	Initial Weight	Final Volume
Run #1	32.9 g	1.0 ml
Run #2	32.9 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	38	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	57	ug/kg	
108-95-2	Phenol	540	66	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.6	ug/kg	
208-96-8	Acenaphthylene	18.4	33	11	ug/kg	J
98-86-2	Acetophenone	ND	170	5.8	ug/kg	
120-12-7	Anthracene	18.2	33	12	ug/kg	J
1912-24-9	Atrazine	ND	170	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	117	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	79.7	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	72.1	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	72.9	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	67.2	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	163	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	66	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	66	15	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	66	10	ug/kg	
218-01-9	Chrysene	182	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.8	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18.7	33	11	ug/kg	J
132-64-9	Dibenzofuran	ND	66	9.8	ug/kg	
84-74-2	Di-n-butyl phthalate	340	66	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	49.1	66	16	ug/kg	J
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	66	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	588000 ^a	66000	29000	ug/kg	
206-44-0	Fluoranthene	121	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.2	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.2	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	50.3	33	11	ug/kg	
78-59-1	Isophorone	ND	66	8.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.0	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.6	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	61.0	33	15	ug/kg	
129-00-0	Pyrene	259	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	86%	0% ^b	12-109%
4165-62-2	Phenol-d5	86%	0% ^b	14-108%

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Report of Analysis

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Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86%	0% ^b	20-138%
4165-60-0	Nitrobenzene-d5	74%	0% ^b	11-119%
321-60-8	2-Fluorobiphenyl	85%	0% ^b	17-115%
1718-51-0	Terphenyl-d14	171% ^c	0% ^b	30-141%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to matrix interference.

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Report of Analysis

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Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31342.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.43	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.34	ug/kg	
5103-71-9	alpha-Chlordane ^a	1.3	0.69	0.26	ug/kg	
5103-74-2	gamma-Chlordane ^a	2.0	0.69	0.48	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.27	ug/kg	
72-54-8	4,4' -DDD	2.0	0.69	0.38	ug/kg	
72-55-9	4,4' -DDE	2.4	0.69	0.28	ug/kg	
50-29-3	4,4' -DDT ^a	6.7	0.69	0.34	ug/kg	
72-20-8	Endrin	ND	0.69	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.68	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		11-151%
877-09-8	Tetrachloro-m-xylene	44%		11-151%
2051-24-3	Decachlorobiphenyl	57%		11-170%
2051-24-3	Decachlorobiphenyl	63%		11-170%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80904.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		17-146%
877-09-8	Tetrachloro-m-xylene	53%		17-146%
2051-24-3	Decachlorobiphenyl	72%		12-155%
2051-24-3	Decachlorobiphenyl	62%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-1(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-1	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.8
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9210	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	6.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	112	22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.53	0.22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	15.9	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	21800	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	19.9	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.5	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	736	2.7	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	24700	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	82.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	4030	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	451	1.6	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.32	0.033	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	17.5	4.4	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	1.2	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.1	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	19.3	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	416	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98054.D	1	05/01/13	JTP	n/a	n/a	V3C4351
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	0.12	ug/kg	
75-25-2	Bromoform	ND	5.9	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.27	ug/kg	
67-66-3	Chloroform	ND	5.9	0.097	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.9	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	0.28	5.9	0.16	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.9	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.9	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	70	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.9	0.51	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.9	0.73	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	0.088	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	5.9	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.88	ug/kg	
75-09-2	Methylene chloride	3.8	5.9	1.5	ug/kg	J
100-42-5	Styrene	ND	5.9	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	0.16	ug/kg	
127-18-4	Tetrachloroethene	0.68	5.9	0.20	ug/kg	J
108-88-3	Toluene	0.71	1.2	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.2	5.9	0.12	ug/kg	J
79-00-5	1,1,2-Trichloroethane	ND	5.9	0.21	ug/kg	
79-01-6	Trichloroethene	0.86	5.9	0.21	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.9	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	0.17	ug/kg	
	m,p-Xylene	0.50	1.2	0.21	ug/kg	J
95-47-6	o-Xylene	ND	1.2	0.16	ug/kg	
1330-20-7	Xylene (total)	0.50	1.2	0.16	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	79%		70-122%
2037-26-5	Toluene-D8	93%		81-127%
460-00-4	4-Bromofluorobenzene	97%		66-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50284.D	1	05/20/13	OYA	05/01/13	OP65702	E3E2175
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	41	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.8	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	16.6	34	11	ug/kg	J
50-32-8	Benzo(a)pyrene	26.7	34	10	ug/kg	J
205-99-2	Benzo(b)fluoranthene	28.0	34	11	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	34.5	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

ND = Not detected MDL - Method Detection Limit

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Report of Analysis

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Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	41.0	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	16	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	349	68	30	ug/kg	
206-44-0	Fluoranthene	18.6	34	15	ug/kg	J
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18.9	34	12	ug/kg	J
78-59-1	Isophorone	ND	68	9.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.2	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	15	ug/kg	
129-00-0	Pyrene	27.1	34	13	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		12-109%
4165-62-2	Phenol-d5	71%		14-108%

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Report of Analysis

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Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81%		20-138%
4165-60-0	Nitrobenzene-d5	56%		11-119%
321-60-8	2-Fluorobiphenyl	71%		17-115%
1718-51-0	Terphenyl-d14	85%		30-141%

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Report of Analysis

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Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31321.D	1	05/02/13	DS	04/30/13	OP65674	G4G784
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.27	ug/kg	
72-54-8	4,4' -DDD	ND	0.68	0.37	ug/kg	
72-55-9	4,4' -DDE	ND	0.68	0.27	ug/kg	
50-29-3	4,4' -DDT	1.4	0.68	0.34	ug/kg	
72-20-8	Endrin	ND	0.68	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.67	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		11-151%
877-09-8	Tetrachloro-m-xylene	59%		11-151%
2051-24-3	Decachlorobiphenyl	63%		11-170%
2051-24-3	Decachlorobiphenyl	63%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80899.D	1	05/03/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		17-146%
877-09-8	Tetrachloro-m-xylene	62%		17-146%
2051-24-3	Decachlorobiphenyl	70%		12-155%
2051-24-3	Decachlorobiphenyl	50%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-2(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-2	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	94.3
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3680	52	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Antimony	< 2.1	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Arsenic	2.4	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Barium	29.1	21	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Beryllium	< 0.21	0.21	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Cadmium	< 0.52	0.52	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Calcium	6950	520	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Chromium	10.3	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Cobalt	6.6	5.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Copper	7.1	2.6	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Iron	6610	52	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Lead	10.6	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Magnesium	3850	520	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Manganese	352	1.6	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Mercury	< 0.035	0.035	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ³
Nickel	7.0	4.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Potassium	< 1000	1000	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Selenium	< 2.1	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Silver	< 0.52	0.52	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Sodium	< 1000	1000	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Thallium	< 1.0	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Vanadium	10.7	5.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴
Zinc	26.4	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Prep QC Batch: MP71740

(4) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98059.D	1	05/01/13	JTP	n/a	n/a	V3C4351
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.12	ug/kg	
75-25-2	Bromoform	ND	5.8	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.26	ug/kg	
67-66-3	Chloroform	ND	5.8	0.096	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.8	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	69	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.8	0.50	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.8	0.72	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	0.086	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.8	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	0.87	ug/kg	
75-09-2	Methylene chloride	3.5	5.8	1.5	ug/kg	J
100-42-5	Styrene	ND	5.8	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.20	ug/kg	
108-88-3	Toluene	ND	1.2	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.1	5.8	0.12	ug/kg	J
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.20	ug/kg	
79-01-6	Trichloroethene	0.30	5.8	0.20	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.8	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
17060-07-0	1,2-Dichloroethane-D4	76%		70-122%
2037-26-5	Toluene-D8	95%		81-127%
460-00-4	4-Bromofluorobenzene	86%		66-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50309.D	1	05/21/13	NAP	05/01/13	OP65702	E3E2176
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	57	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.7	ug/kg	
208-96-8	Acenaphthylene	121	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	80.3	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	149	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	191	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	161	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	224	34	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	156	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	16	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

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Report of Analysis

Page 2 of 3

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	179	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	54.7	34	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	132	67	30	ug/kg	
206-44-0	Fluoranthene	214	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.3	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	152	34	12	ug/kg	
78-59-1	Isophorone	ND	67	9.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	17.8	34	9.2	ug/kg	J
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	113	34	15	ug/kg	
129-00-0	Pyrene	312	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		12-109%
4165-62-2	Phenol-d5	78%		14-108%

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Report of Analysis

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Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90%		20-138%
4165-60-0	Nitrobenzene-d5	71%		11-119%
321-60-8	2-Fluorobiphenyl	88%		17-115%
1718-51-0	Terphenyl-d14	111%		30-141%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91102.D	1	05/03/13	DS	04/30/13	OP65674	G1G2993
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.33	ug/kg	
5103-71-9	alpha-Chlordane	1.1	0.68	0.25	ug/kg	
5103-74-2	gamma-Chlordane	0.77	0.68	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.27	ug/kg	
72-54-8	4,4' -DDD	ND	0.68	0.37	ug/kg	
72-55-9	4,4' -DDE	ND	0.68	0.27	ug/kg	
50-29-3	4,4' -DDT	ND	0.68	0.33	ug/kg	
72-20-8	Endrin	ND	0.68	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.66	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		11-151%
877-09-8	Tetrachloro-m-xylene	55%		11-151%
2051-24-3	Decachlorobiphenyl	37%		11-170%
2051-24-3	Decachlorobiphenyl	70%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80909.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		17-146%
877-09-8	Tetrachloro-m-xylene	66%		17-146%
2051-24-3	Decachlorobiphenyl	79%		12-155%
2051-24-3	Decachlorobiphenyl	52%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-3(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-3	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	95.6
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4740	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	2.1	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	32.9	20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	< 0.20	0.20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 0.50	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	5950	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	7.9	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.0	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	11.6	2.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	8900	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	22.5	2.0	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Magnesium	1180	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	228	1.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	< 0.034	0.034	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	9.2	4.0	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Potassium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	< 0.50	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.0	1.0	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Vanadium	9.7	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	26.6	2.0	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98113.D	1	05/02/13	JTP	n/a	n/a	V3C4353
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.0	13	2.1	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.29	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	75	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.79	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.094	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.95	ug/kg	
75-09-2	Methylene chloride	2.6	6.3	1.6	ug/kg	J
100-42-5	Styrene	ND	6.3	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.64	6.3	0.13	ug/kg	J
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	94%		66-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50289.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2							

Run #	Initial Weight	Final Volume
Run #1	33.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.9	ug/kg	
208-96-8	Acenaphthylene	26.7	34	11	ug/kg	J
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	22.2	34	12	ug/kg	J
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	51.7	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	53.5	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	42.4	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43.9	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	32.6	34	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	63.3	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	346	68	30	ug/kg	
206-44-0	Fluoranthene	74.0	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.6	34	12	ug/kg	J
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	43.6	34	16	ug/kg	
129-00-0	Pyrene	115	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		12-109%
4165-62-2	Phenol-d5	84%		14-108%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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Report of Analysis

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Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71%		20-138%
4165-60-0	Nitrobenzene-d5	67%		11-119%
321-60-8	2-Fluorobiphenyl	85%		17-115%
1718-51-0	Terphenyl-d14	106%		30-141%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31323.D	1	05/02/13	DS	04/30/13	OP65674	G4G784
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.50	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.28	ug/kg	
72-54-8	4,4' -DDD	1.4	0.73	0.40	ug/kg	
72-55-9	4,4' -DDE	0.82	0.73	0.29	ug/kg	
50-29-3	4,4' -DDT	4.0	0.73	0.36	ug/kg	
72-20-8	Endrin	ND	0.73	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.71	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		11-151%
877-09-8	Tetrachloro-m-xylene	76%		11-151%
2051-24-3	Decachlorobiphenyl	76%		11-170%
2051-24-3	Decachlorobiphenyl	72%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80907.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		17-146%
877-09-8	Tetrachloro-m-xylene	53%		17-146%
2051-24-3	Decachlorobiphenyl	83%		12-155%
2051-24-3	Decachlorobiphenyl	53%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-4(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-4	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	87.8
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6270	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	2.8	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	42.0	22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.23	0.22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 0.55	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	9640	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	10	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.5	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	19.2	2.8	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	10300	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	25.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	2860	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	206	1.7	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	< 0.034	0.034	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	10.0	4.4	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	0.85	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.1	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	11.5	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	36.0	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98114.D	1	05/03/13	JTP	n/a	n/a	V3C4353
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.2	12	2.1	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	0.13	ug/kg	
75-25-2	Bromoform	ND	6.1	0.18	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.1	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.28	ug/kg	
67-66-3	Chloroform	ND	6.1	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.1	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.1	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.1	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.1	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.1	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	3.4	6.1	0.17	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.1	0.31	ug/kg	
156-59-2	cis-1,2-Dichloroethene	1.3	6.1	0.22	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	6.1	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	72	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.32	ug/kg	
76-13-1	Freon 113	ND	6.1	0.52	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID: SB-5(0-2 FT)	Date Sampled: 04/22/13
Lab Sample ID: JB35522-5	Date Received: 04/27/13
Matrix: SO - Soil	Percent Solids: 91.4
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.1	0.76	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	0.090	ug/kg	
79-20-9	Methyl Acetate	ND	6.1	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.1	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	0.91	ug/kg	
75-09-2	Methylene chloride	3.6	6.1	1.5	ug/kg	J
100-42-5	Styrene	ND	6.1	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	0.16	ug/kg	
127-18-4	Tetrachloroethene	2.5	6.1	0.21	ug/kg	J
108-88-3	Toluene	0.54	1.2	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	8.5	6.1	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	0.21	ug/kg	
79-01-6	Trichloroethene	9.2	6.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	0.18	ug/kg	
	m,p-Xylene	0.35	1.2	0.21	ug/kg	J
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	0.35	1.2	0.17	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50290.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2							

Run #	Initial Weight	Final Volume
Run #1	33.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	37	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	160	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	55	ug/kg	
87-86-5	Pentachlorophenol	ND	330	56	ug/kg	
108-95-2	Phenol	ND	66	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.5	ug/kg	
208-96-8	Acenaphthylene	72.3	33	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.8	ug/kg	
120-12-7	Anthracene	50.9	33	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	123	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	161	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	145	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	173	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	128	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	66	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	15.9	66	15	ug/kg	J

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Report of Analysis

Page 2 of 3

Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	66	10	ug/kg	
218-01-9	Chrysene	140	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	9.9	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.7	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	9.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42.7	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	66	9.7	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	66	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	66	16	ug/kg	
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	66	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	243	66	29	ug/kg	
206-44-0	Fluoranthene	189	33	14	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	129	33	11	ug/kg	
78-59-1	Isophorone	ND	66	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	ND	33	8.9	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	20	ug/kg	
85-01-8	Phenanthrene	93.9	33	15	ug/kg	
129-00-0	Pyrene	205	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		12-109%
4165-62-2	Phenol-d5	88%		14-108%

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96%		20-138%
4165-60-0	Nitrobenzene-d5	65%		11-119%
321-60-8	2-Fluorobiphenyl	88%		17-115%
1718-51-0	Terphenyl-d14	108%		30-141%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31324.D	1	05/02/13	DS	04/30/13	OP65674	G4G784
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.34	ug/kg	
5103-71-9	alpha-Chlordane	24.9	0.70	0.26	ug/kg	
5103-74-2	gamma-Chlordane	31.8	0.70	0.48	ug/kg	
60-57-1	Dieldrin	8.8	0.70	0.27	ug/kg	
72-54-8	4,4' -DDD	ND	0.70	0.38	ug/kg	
72-55-9	4,4' -DDE	0.71	0.70	0.28	ug/kg	
50-29-3	4,4' -DDT	5.8	0.70	0.35	ug/kg	
72-20-8	Endrin	ND	0.70	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		11-151%
877-09-8	Tetrachloro-m-xylene	69%		11-151%
2051-24-3	Decachlorobiphenyl	71%		11-170%
2051-24-3	Decachlorobiphenyl	72%		11-170%

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Report of Analysis

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Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80908.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		17-146%
877-09-8	Tetrachloro-m-xylene	61%		17-146%
2051-24-3	Decachlorobiphenyl	77%		12-155%
2051-24-3	Decachlorobiphenyl	51%		12-155%

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Report of Analysis

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Client Sample ID:	SB-5(0-2 FT)	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-5	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	91.4
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9770	53	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.1	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	6.4	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	67.1	21	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.62	0.21	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 0.53	0.53	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	27600	530	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	32.4	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.3	5.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	39.6	2.7	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	15900	53	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	187	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	2760	530	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	199	1.6	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.066	0.034	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	17.2	4.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	1130	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.1	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	0.90	0.53	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.1	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	27.5	5.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	159	2.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E202962.D	1	05/08/13	OTR	n/a	n/a	VE8920
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	25.0 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	4400	740	ug/kg	
71-43-2	Benzene	290	440	52	ug/kg	J
74-97-5	Bromochloromethane	ND	2200	120	ug/kg	
75-27-4	Bromodichloromethane	ND	2200	46	ug/kg	
75-25-2	Bromoform	ND	2200	66	ug/kg	
74-83-9	Bromomethane	ND	2200	120	ug/kg	
78-93-3	2-Butanone (MEK)	ND	4400	1000	ug/kg	
75-15-0	Carbon disulfide	ND	2200	51	ug/kg	
56-23-5	Carbon tetrachloride	ND	2200	58	ug/kg	
108-90-7	Chlorobenzene	ND	2200	47	ug/kg	
75-00-3	Chloroethane	4120	2200	100	ug/kg	
67-66-3	Chloroform	ND	2200	36	ug/kg	
74-87-3	Chloromethane	ND	2200	82	ug/kg	
110-82-7	Cyclohexane	786	2200	54	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	4400	390	ug/kg	
124-48-1	Dibromochloromethane	ND	2200	72	ug/kg	
106-93-4	1,2-Dibromoethane	ND	440	56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2200	83	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2200	82	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2200	77	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2200	100	ug/kg	
75-34-3	1,1-Dichloroethane	3330	2200	60	ug/kg	
107-06-2	1,2-Dichloroethane	ND	440	59	ug/kg	
75-35-4	1,1-Dichloroethene	345	2200	110	ug/kg	J
156-59-2	cis-1,2-Dichloroethene	545	2200	80	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	2200	100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2200	68	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2200	61	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2200	68	ug/kg	
123-91-1	1,4-Dioxane	ND	55000	26000	ug/kg	
100-41-4	Ethylbenzene	35800	440	120	ug/kg	
76-13-1	Freon 113	ND	2200	190	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	2200	270	ug/kg	
98-82-8	Isopropylbenzene	12100	2200	33	ug/kg	
79-20-9	Methyl Acetate	ND	2200	1100	ug/kg	
108-87-2	Methylcyclohexane	805	2200	74	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	440	100	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2200	330	ug/kg	
75-09-2	Methylene chloride	763	2200	560	ug/kg	J
100-42-5	Styrene	ND	2200	40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2200	58	ug/kg	
127-18-4	Tetrachloroethene	2390	2200	76	ug/kg	
108-88-3	Toluene	30300	440	46	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2200	72	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2200	61	ug/kg	
71-55-6	1,1,1-Trichloroethane	8210	2200	47	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2200	76	ug/kg	
79-01-6	Trichloroethene	2850	2200	76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2200	130	ug/kg	
75-01-4	Vinyl chloride	159	2200	63	ug/kg	J
	m,p-Xylene	73900	440	76	ug/kg	
95-47-6	o-Xylene	23800	440	61	ug/kg	
1330-20-7	Xylene (total)	97600	440	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		70-130%
17060-07-0	1,2-Dichloroethane-D4	83%		70-122%
2037-26-5	Toluene-D8	89%		81-127%
460-00-4	4-Bromofluorobenzene	97%		66-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50292.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2	3E50318.D	4	05/21/13	NAP	05/01/13	OP65702	E3E2176
Run #3	3E50518.D	50	05/29/13	OYA	05/01/13	OP65702	E3E2184

	Initial Weight	Final Volume
Run #1	32.1 g	1.0 ml
Run #2	32.1 g	1.0 ml
Run #3	32.1 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	250	50	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	250	50	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	250	80	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	250	84	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	61	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1000	61	ug/kg	
95-48-7	2-Methylphenol	ND	100	57	ug/kg	
	3&4-Methylphenol	ND	100	63	ug/kg	
88-75-5	2-Nitrophenol	ND	250	53	ug/kg	
100-02-7	4-Nitrophenol	ND	500	84	ug/kg	
87-86-5	Pentachlorophenol	392	500	85	ug/kg	J
108-95-2	Phenol	ND	100	52	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	51	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	250	58	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	250	47	ug/kg	
83-32-9	Acenaphthene	ND	50	14	ug/kg	
208-96-8	Acenaphthylene	ND	50	16	ug/kg	
98-86-2	Acetophenone	ND	250	8.8	ug/kg	
120-12-7	Anthracene	ND	50	17	ug/kg	
1912-24-9	Atrazine	ND	250	9.8	ug/kg	
56-55-3	Benzo(a)anthracene	ND	50	16	ug/kg	
50-32-8	Benzo(a)pyrene	ND	50	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	50	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	50	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	50	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	100	18	ug/kg	
85-68-7	Butyl benzyl phthalate	3670	100	29	ug/kg	
92-52-4	1,1'-Biphenyl	ND	100	5.8	ug/kg	
100-52-7	Benzaldehyde	ND	250	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	100	15	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	250	16	ug/kg	
86-74-8	Carbazole	487	100	23	ug/kg	
105-60-2	Caprolactam	ND	100	16	ug/kg	
218-01-9	Chrysene	ND	50	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	100	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	100	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	100	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	100	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	100	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	50	17	ug/kg	
132-64-9	Dibenzofuran	ND	100	15	ug/kg	
84-74-2	Di-n-butyl phthalate	215000 ^a	5000	550	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	100	24	ug/kg	
84-66-2	Diethyl phthalate	ND	100	17	ug/kg	
131-11-3	Dimethyl phthalate	ND	100	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	8020 ^b	400	180	ug/kg	
206-44-0	Fluoranthene	55.9	50	22	ug/kg	
86-73-7	Fluorene	50.2	50	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	100	16	ug/kg	
87-68-3	Hexachlorobutadiene	ND	50	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	51	ug/kg	
67-72-1	Hexachloroethane	ND	250	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	50	17	ug/kg	
78-59-1	Isophorone	ND	100	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	28	ug/kg	
88-74-4	2-Nitroaniline	ND	250	22	ug/kg	
99-09-2	3-Nitroaniline	ND	250	20	ug/kg	
100-01-6	4-Nitroaniline	ND	250	19	ug/kg	
91-20-3	Naphthalene	1550	50	14	ug/kg	
98-95-3	Nitrobenzene	ND	100	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	100	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	30	ug/kg	
85-01-8	Phenanthrene	160	50	23	ug/kg	
129-00-0	Pyrene	63.4	50	19	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	15	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	64%	29%	17%	12-109%
4165-62-2	Phenol-d5	50%	0%	593% ^c	14-108%
118-79-6	2,4,6-Tribromophenol	47%	41%	48%	20-138%
4165-60-0	Nitrobenzene-d5	77%	43%	261% ^c	11-119%
321-60-8	2-Fluorobiphenyl	65%	42%	62%	17-115%
1718-51-0	Terphenyl-d14	53%	47%	77%	30-141%

- (a) Result is from Run# 3
 (b) Result is from Run# 2
 (c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31350.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2	4G31351.D	500	05/03/13	DS	04/30/13	OP65674	G4G785

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.0	0.47	ug/kg	
319-84-6	alpha-BHC	ND	1.0	0.30	ug/kg	
319-85-7	beta-BHC	ND	1.0	0.63	ug/kg	
319-86-8	delta-BHC	ND	1.0	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.0	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^a	16900 ^b	510	190	ug/kg	
5103-74-2	gamma-Chlordane	20100 ^b	510	350	ug/kg	
60-57-1	Dieldrin	16700 ^b	510	200	ug/kg	
72-54-8	4,4' -DDD	ND	1.0	0.55	ug/kg	
72-55-9	4,4' -DDE	ND	1.0	0.41	ug/kg	
50-29-3	4,4' -DDT	ND	1.0	0.50	ug/kg	
72-20-8	Endrin	ND	1.0	0.33	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.0	0.43	ug/kg	
7421-93-4	Endrin aldehyde	ND	1.0	0.53	ug/kg	
959-98-8	Endosulfan-I	ND	1.0	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	1.0	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.0	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.0	0.38	ug/kg	
72-43-5	Methoxychlor	ND	2.0	0.99	ug/kg	
53494-70-5	Endrin ketone	ND	1.0	0.41	ug/kg	
8001-35-2	Toxaphene	ND	25	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	838% ^d	0% ^c	11-151%
877-09-8	Tetrachloro-m-xylene	2471% ^d	0% ^c	11-151%
2051-24-3	Decachlorobiphenyl	54%	0% ^c	11-170%
2051-24-3	Decachlorobiphenyl	1582% ^d	0% ^c	11-170%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80910.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	51	13	ug/kg	
11104-28-2	Aroclor 1221	ND	51	30	ug/kg	
11141-16-5	Aroclor 1232	ND	51	26	ug/kg	
53469-21-9	Aroclor 1242	ND	51	16	ug/kg	
12672-29-6	Aroclor 1248	ND	51	15	ug/kg	
11097-69-1	Aroclor 1254	ND	51	24	ug/kg	
11096-82-5	Aroclor 1260	ND	51	17	ug/kg	
11100-14-4	Aroclor 1268	ND	51	15	ug/kg	
37324-23-5	Aroclor 1262	ND	51	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	697% ^a		17-146%
877-09-8	Tetrachloro-m-xylene	1034% ^a		17-146%
2051-24-3	Decachlorobiphenyl	68%		12-155%
2051-24-3	Decachlorobiphenyl	175% ^a		12-155%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SB-6(8-9 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-6	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	62.6
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3500	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	2.7	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	46.8	20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	< 0.20	0.20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.66	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	16100	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	18.3	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.0	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	46.3	2.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	3190	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	73.2	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	760	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	48.5	1.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	36.7	2.4	mg/kg	50	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	9.3	4.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	< 0.50	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.0	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	8.5	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	178	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y134012.D	1	05/09/13	RS	n/a	n/a	VY5771
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	50.0 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1200	210	ug/kg	
71-43-2	Benzene	ND	120	15	ug/kg	
74-97-5	Bromochloromethane	ND	620	33	ug/kg	
75-27-4	Bromodichloromethane	ND	620	13	ug/kg	
75-25-2	Bromoform	ND	620	19	ug/kg	
74-83-9	Bromomethane	ND	620	34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1200	300	ug/kg	
75-15-0	Carbon disulfide	ND	620	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	620	16	ug/kg	
108-90-7	Chlorobenzene	ND	620	13	ug/kg	
75-00-3	Chloroethane	253	620	28	ug/kg	J
67-66-3	Chloroform	ND	620	10	ug/kg	
74-87-3	Chloromethane	ND	620	23	ug/kg	
110-82-7	Cyclohexane	139	620	15	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	110	ug/kg	
124-48-1	Dibromochloromethane	ND	620	20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	120	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	620	23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	620	23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	620	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	620	28	ug/kg	
75-34-3	1,1-Dichloroethane	356	620	17	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	120	17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	620	32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	174	620	23	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	620	30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	620	19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	620	17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	620	19	ug/kg	
123-91-1	1,4-Dioxane	ND	15000	7400	ug/kg	
100-41-4	Ethylbenzene	2630	120	33	ug/kg	
76-13-1	Freon 113	ND	620	53	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: SB-6(10-11 FT)	Date Sampled: 04/25/13
Lab Sample ID: JB35522-7	Date Received: 04/27/13
Matrix: SO - Soil	Percent Solids: 89.3
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	620	77	ug/kg	
98-82-8	Isopropylbenzene	1460	620	9.2	ug/kg	
79-20-9	Methyl Acetate	ND	620	320	ug/kg	
108-87-2	Methylcyclohexane	156	620	21	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	120	29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	620	93	ug/kg	
75-09-2	Methylene chloride	416	620	160	ug/kg	J
100-42-5	Styrene	ND	620	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	620	16	ug/kg	
127-18-4	Tetrachloroethene	409	620	21	ug/kg	J
108-88-3	Toluene	3190	120	13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	620	20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	620	17	ug/kg	
71-55-6	1,1,1-Trichloroethane	1240	620	13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	620	22	ug/kg	
79-01-6	Trichloroethene	834	620	22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	620	37	ug/kg	
75-01-4	Vinyl chloride	ND	620	18	ug/kg	
	m,p-Xylene	5350	120	22	ug/kg	
95-47-6	o-Xylene	2270	120	17	ug/kg	
1330-20-7	Xylene (total)	7620	120	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	82%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	98%		66-132%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50293.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2	3E50519.D	50	05/29/13	OYA	05/01/13	OP65702	E3E2184

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2	31.0 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	82.1	360	62	ug/kg	J
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	1340	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	294	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	65400 ^a	3600	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	181	72	12	ug/kg	
131-11-3	Dimethyl phthalate	48.2	72	13	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	2910	72	32	ug/kg	
206-44-0	Fluoranthene	40.8	36	16	ug/kg	
86-73-7	Fluorene	26.2	36	12	ug/kg	J
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	647	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	1040	36	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	96.4	36	16	ug/kg	
129-00-0	Pyrene	69.5	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%	68%	12-109%
4165-62-2	Phenol-d5	52%	247% ^b	14-108%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61%	71%	20-138%
4165-60-0	Nitrobenzene-d5	108%	282% ^b	11-119%
321-60-8	2-Fluorobiphenyl	102%	102%	17-115%
1718-51-0	Terphenyl-d14	90%	101%	30-141%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31352.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2	4G31353.D	100	05/03/13	DS	04/30/13	OP65674	G4G785

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	1470 ^a	71	33	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.35	ug/kg	
5103-71-9	alpha-Chlordane ^b	2120 ^a	71	26	ug/kg	
5103-74-2	gamma-Chlordane	2600 ^a	71	49	ug/kg	
60-57-1	Dieldrin	2220 ^a	71	28	ug/kg	
72-54-8	4,4' -DDD	ND	0.71	0.39	ug/kg	
72-55-9	4,4' -DDE	ND	0.71	0.29	ug/kg	
50-29-3	4,4' -DDT	ND	0.71	0.35	ug/kg	
72-20-8	Endrin	ND	0.71	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	45%	0% ^c	11-151%
877-09-8	Tetrachloro-m-xylene	247% ^d	0% ^c	11-151%
2051-24-3	Decachlorobiphenyl	47%	0% ^c	11-170%
2051-24-3	Decachlorobiphenyl	235% ^d	0% ^c	11-170%

(a) Result is from Run# 2

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SB-6(10-11 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-7	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	89.3
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80911.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		17-146%
877-09-8	Tetrachloro-m-xylene	263% ^a		17-146%
2051-24-3	Decachlorobiphenyl	54%		12-155%
2051-24-3	Decachlorobiphenyl	59%		12-155%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SB-6(10-11 FT)**Lab Sample ID:** JB35522-7**Matrix:** SO - Soil**Date Sampled:** 04/25/13**Date Received:** 04/27/13**Percent Solids:** 89.3**Project:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Aluminum	4190	59	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.3	2.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	< 2.3	2.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	< 23	23	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	< 0.23	0.23	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 0.59	0.59	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	3970	590	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	8.9	1.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.9	5.9	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	8.1	2.9	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	5620	59	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	31.8	2.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	729	590	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	78.4	1.8	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.98	0.071	mg/kg	2	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	5.7	4.7	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1200	1200	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.3	2.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	< 0.59	0.59	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1200	1200	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.2	1.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	9.6	5.9	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	33.5	2.3	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y134013.D	1	05/09/13	RS	n/a	n/a	VY5771
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	50.0 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	210	ug/kg	
71-43-2	Benzene	29.2	130	15	ug/kg	J
74-97-5	Bromochloromethane	ND	630	34	ug/kg	
75-27-4	Bromodichloromethane	ND	630	13	ug/kg	
75-25-2	Bromoform	ND	630	19	ug/kg	
74-83-9	Bromomethane	ND	630	35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	300	ug/kg	
75-15-0	Carbon disulfide	ND	630	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	630	17	ug/kg	
108-90-7	Chlorobenzene	ND	630	14	ug/kg	
75-00-3	Chloroethane	315	630	29	ug/kg	J
67-66-3	Chloroform	ND	630	10	ug/kg	
74-87-3	Chloromethane	ND	630	24	ug/kg	
110-82-7	Cyclohexane	ND	630	16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1300	110	ug/kg	
124-48-1	Dibromochloromethane	ND	630	21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	130	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	630	24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	630	24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	630	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	630	29	ug/kg	
75-34-3	1,1-Dichloroethane	74.6	630	17	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	130	17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	630	33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	630	23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	630	30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	630	20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	630	18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	630	20	ug/kg	
123-91-1	1,4-Dioxane	ND	16000	7500	ug/kg	
100-41-4	Ethylbenzene	1840	130	33	ug/kg	
76-13-1	Freon 113	ND	630	55	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	630	79	ug/kg	
98-82-8	Isopropylbenzene	926	630	9.4	ug/kg	
79-20-9	Methyl Acetate	ND	630	330	ug/kg	
108-87-2	Methylcyclohexane	118	630	21	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	130	30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	630	95	ug/kg	
75-09-2	Methylene chloride	ND	630	160	ug/kg	
100-42-5	Styrene	ND	630	12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	630	17	ug/kg	
127-18-4	Tetrachloroethene	50.0	630	22	ug/kg	J
108-88-3	Toluene	633	130	13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	630	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	630	18	ug/kg	
71-55-6	1,1,1-Trichloroethane	273	630	13	ug/kg	J
79-00-5	1,1,2-Trichloroethane	ND	630	22	ug/kg	
79-01-6	Trichloroethene	86.9	630	22	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	630	38	ug/kg	
75-01-4	Vinyl chloride	ND	630	18	ug/kg	
	m,p-Xylene	3390	130	22	ug/kg	
95-47-6	o-Xylene	699	130	18	ug/kg	
1330-20-7	Xylene (total)	4090	130	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	84%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	97%		66-132%

(a) Sample analyzed outside the holding time but the original run within holding time.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50291.D	1	05/21/13	OYA	05/01/13	OP65702	E3E2175
Run #2	3E50317.D	4	05/21/13	NAP	05/01/13	OP65702	E3E2176

	Initial Weight	Final Volume
Run #1	32.3 g	1.0 ml
Run #2	32.3 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	43	ug/kg	
95-48-7	2-Methylphenol	ND	70	40	ug/kg	
	3&4-Methylphenol	ND	70	45	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	60	ug/kg	
108-95-2	Phenol	ND	70	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	181	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	221	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	544	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	465	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	456	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	317	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	410	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	199	70	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	36.1	70	16	ug/kg	J

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	589	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	180	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	123	35	12	ug/kg	
132-64-9	Dibenzofuran	22.0	70	10	ug/kg	J
84-74-2	Di-n-butyl phthalate	2190 ^a	280	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	2190	70	31	ug/kg	
206-44-0	Fluoranthene	765	35	15	ug/kg	
86-73-7	Fluorene	40.7	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	301	35	12	ug/kg	
78-59-1	Isophorone	ND	70	9.4	ug/kg	
91-57-6	2-Methylnaphthalene	421	70	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	15	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	477	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	492	35	16	ug/kg	
129-00-0	Pyrene	851	35	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	93%	63%	12-109%
4165-62-2	Phenol-d5	137% ^b	51%	14-108%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	89%	62%	20-138%
4165-60-0	Nitrobenzene-d5	133% ^b	86%	11-119%
321-60-8	2-Fluorobiphenyl	103%	59%	17-115%
1718-51-0	Terphenyl-d14	105%	66%	30-141%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31354.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2	4G31355.D	100	05/03/13	DS	04/30/13	OP65674	G4G785

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	4220 ^a	72	33	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.35	ug/kg	
5103-71-9	alpha-Chlordane ^b	3110 ^a	72	27	ug/kg	
5103-74-2	gamma-Chlordane	3050 ^a	72	50	ug/kg	
60-57-1	Dieldrin	1370 ^a	72	28	ug/kg	
72-54-8	4,4' -DDD	ND	0.72	0.39	ug/kg	
72-55-9	4,4' -DDE	ND	0.72	0.29	ug/kg	
50-29-3	4,4' -DDT	ND	0.72	0.35	ug/kg	
72-20-8	Endrin	ND	0.72	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.70	ug/kg	
53494-70-5	Endrin ketone	55.1	0.72	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%	0% ^c	11-151%
877-09-8	Tetrachloro-m-xylene	349% ^d	0% ^c	11-151%
2051-24-3	Decachlorobiphenyl	126%	0% ^c	11-170%
2051-24-3	Decachlorobiphenyl	388% ^d	0% ^c	11-170%

(a) Result is from Run# 2

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80912.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%		17-146%
877-09-8	Tetrachloro-m-xylene	101%		17-146%
2051-24-3	Decachlorobiphenyl	36%		12-155%
2051-24-3	Decachlorobiphenyl	84%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SB-X	Date Sampled:	04/22/13
Lab Sample ID:	JB35522-8	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.2
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8420	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	3.3	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	31.6	22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.34	0.22	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 0.55	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	1240	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	12.6	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.5	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	25.8	2.7	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	9530	55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	41.6	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	1200	550	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	221	1.6	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.27	0.037	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	10.1	4.4	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.2	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	< 0.55	0.55	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1100	1100	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.1	1.1	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	15.0	5.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	50.3	2.2	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-9	Date Received:	04/27/13
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C115931.D	1	05/08/13	TYG	n/a	n/a	V1C5137
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-9	Date Received:	04/27/13
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		81-121%
17060-07-0	1,2-Dichloroethane-D4	88%		74-127%
2037-26-5	Toluene-D8	91%		80-122%
460-00-4	4-Bromofluorobenzene	88%		78-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98115.D	1	05/03/13	JTP	n/a	n/a	V3C4353
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	31.8	15	2.5	ug/kg	
71-43-2	Benzene	ND	1.5	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	7.5	0.40	ug/kg	
75-27-4	Bromodichloromethane	ND	7.5	0.16	ug/kg	
75-25-2	Bromoform	ND	7.5	0.23	ug/kg	
74-83-9	Bromomethane	ND	7.5	0.41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	3.6	ug/kg	
75-15-0	Carbon disulfide	0.67	7.5	0.18	ug/kg	J
56-23-5	Carbon tetrachloride	ND	7.5	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	7.5	0.16	ug/kg	
75-00-3	Chloroethane	1.1	7.5	0.34	ug/kg	J
67-66-3	Chloroform	ND	7.5	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.5	0.28	ug/kg	
110-82-7	Cyclohexane	ND	7.5	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	15	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.5	0.25	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.19	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.5	0.28	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.5	0.28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.5	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.5	0.34	ug/kg	
75-34-3	1,1-Dichloroethane	9.3	7.5	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.5	0.39	ug/kg	
156-59-2	cis-1,2-Dichloroethene	0.35	7.5	0.27	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	7.5	0.36	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.5	0.23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.5	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.5	0.23	ug/kg	
123-91-1	1,4-Dioxane	ND	190	89	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.39	ug/kg	
76-13-1	Freon 113	ND	7.5	0.64	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.5	0.93	ug/kg	
98-82-8	Isopropylbenzene	ND	7.5	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.5	3.9	ug/kg	
108-87-2	Methylcyclohexane	ND	7.5	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.5	1.1	ug/kg	
75-09-2	Methylene chloride	3.0	7.5	1.9	ug/kg	J
100-42-5	Styrene	ND	7.5	0.14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.5	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	7.5	0.26	ug/kg	
108-88-3	Toluene	0.40	1.5	0.16	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	7.5	0.25	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.5	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	52.1	7.5	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.5	0.26	ug/kg	
79-01-6	Trichloroethene	0.80	7.5	0.26	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	7.5	0.45	ug/kg	
75-01-4	Vinyl chloride	ND	7.5	0.22	ug/kg	
	m,p-Xylene	ND	1.5	0.26	ug/kg	
95-47-6	o-Xylene	ND	1.5	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
17060-07-0	1,2-Dichloroethane-D4	87%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50311.D	1	05/21/13	NAP	05/01/13	OP65702	E3E2176
Run #2 ^a	3E50520.D	2	05/29/13	OYA	05/01/13	OP65702	E3E2184

	Initial Weight	Final Volume
Run #1	33.9 g	1.0 ml
Run #2	33.9 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	800	49	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	800	49	ug/kg	
95-48-7	2-Methylphenol	ND	80	45	ug/kg	
	3&4-Methylphenol	ND	80	51	ug/kg	
88-75-5	2-Nitrophenol	ND	200	42	ug/kg	
100-02-7	4-Nitrophenol	ND	400	67	ug/kg	
87-86-5	Pentachlorophenol	ND	400	68	ug/kg	
108-95-2	Phenol	ND	80	42	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	46	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	ND	40	12	ug/kg	
208-96-8	Acenaphthylene	46.9	40	13	ug/kg	
98-86-2	Acetophenone	ND	200	7.0	ug/kg	
120-12-7	Anthracene	64.4	40	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.8	ug/kg	
56-55-3	Benzo(a)anthracene	204	40	13	ug/kg	
50-32-8	Benzo(a)pyrene	271	40	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	346	40	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	262	40	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	280	40	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	80	14	ug/kg	
85-68-7	Butyl benzyl phthalate	407	80	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	80	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	80	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	43.0	80	18	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	80	13	ug/kg	
218-01-9	Chrysene	438	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	80	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	80	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	80	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	80	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	80	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	80	15	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	60.8	40	14	ug/kg	
132-64-9	Dibenzofuran	ND	80	12	ug/kg	
84-74-2	Di-n-butyl phthalate	409	80	8.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	80	19	ug/kg	
84-66-2	Diethyl phthalate	ND	80	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	80	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	2420	80	35	ug/kg	
206-44-0	Fluoranthene	513	40	18	ug/kg	
86-73-7	Fluorene	26.0	40	13	ug/kg	J
118-74-1	Hexachlorobenzene	ND	80	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	41	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	196	40	14	ug/kg	
78-59-1	Isophorone	ND	80	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	80	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	18	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	16	ug/kg	
91-20-3	Naphthalene	ND	40	11	ug/kg	
98-95-3	Nitrobenzene	ND	80	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	80	9.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	242	40	18	ug/kg	
129-00-0	Pyrene	654	40	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%	80%	12-109%
4165-62-2	Phenol-d5	73%	84%	14-108%

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	101%	71%	20-138%
4165-60-0	Nitrobenzene-d5	58%	69%	11-119%
321-60-8	2-Fluorobiphenyl	76%	81%	17-115%
1718-51-0	Terphenyl-d14	83%	104%	30-141%

(a) Confirmation run for internal standard areas.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31343.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.85	0.39	ug/kg	
319-84-6	alpha-BHC	ND	0.85	0.26	ug/kg	
319-85-7	beta-BHC	ND	0.85	0.53	ug/kg	
319-86-8	delta-BHC	ND	0.85	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.85	0.42	ug/kg	
5103-71-9	alpha-Chlordane ^a	11.8	0.85	0.32	ug/kg	
5103-74-2	gamma-Chlordane ^a	17.1	0.85	0.59	ug/kg	
60-57-1	Dieldrin	7.2	0.85	0.33	ug/kg	
72-54-8	4,4'-DDD ^a	1.1	0.85	0.47	ug/kg	
72-55-9	4,4'-DDE ^a	2.7	0.85	0.34	ug/kg	
50-29-3	4,4'-DDT ^a	2.2	0.85	0.42	ug/kg	
72-20-8	Endrin	ND	0.85	0.28	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.85	0.37	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.85	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	0.85	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.85	0.51	ug/kg	
76-44-8	Heptachlor	ND	0.85	0.42	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.85	0.32	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.84	ug/kg	
53494-70-5	Endrin ketone	ND	0.85	0.35	ug/kg	
8001-35-2	Toxaphene	ND	21	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	41%		11-151%
877-09-8	Tetrachloro-m-xylene	43%		11-151%
2051-24-3	Decachlorobiphenyl	58%		11-170%
2051-24-3	Decachlorobiphenyl	82%		11-170%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80905.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	43	11	ug/kg	
11104-28-2	Aroclor 1221	ND	43	26	ug/kg	
11141-16-5	Aroclor 1232	ND	43	22	ug/kg	
53469-21-9	Aroclor 1242	ND	43	14	ug/kg	
12672-29-6	Aroclor 1248	ND	43	13	ug/kg	
11097-69-1	Aroclor 1254	ND	43	20	ug/kg	
11096-82-5	Aroclor 1260	ND	43	14	ug/kg	
11100-14-4	Aroclor 1268	ND	43	13	ug/kg	
37324-23-5	Aroclor 1262	ND	43	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		17-146%
877-09-8	Tetrachloro-m-xylene	38%		17-146%
2051-24-3	Decachlorobiphenyl	87%		12-155%
2051-24-3	Decachlorobiphenyl	55%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SD-1 (1-2 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-10	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	74.1
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4800	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	3.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	44.5	20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.43	0.20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	1.9	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	9800	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	22.5	0.99	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.0	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	155	2.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	19200	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	55.6	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	3750	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	151	1.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.30	0.044	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	21.4	4.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 990	990	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	0.90	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 990	990	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 0.99	0.99	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	37.6	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	459	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	E202963.D	1	05/08/13	OTR	n/a	n/a	VE8920
Run #2 ^a	Y134014.D	1	05/09/13	RS	n/a	n/a	VY5771
Run #3 ^a	Y134057.D	1	05/10/13	RS	n/a	n/a	VY5773

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2	5.0 g	5.0 ml	4.0 ul
Run #3	5.0 g	5.0 ml	0.040 ul

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1200	200	ug/kg	
71-43-2	Benzene	ND	120	14	ug/kg	
74-97-5	Bromochloromethane	ND	590	31	ug/kg	
75-27-4	Bromodichloromethane	ND	590	12	ug/kg	
75-25-2	Bromoform	ND	590	18	ug/kg	
74-83-9	Bromomethane	ND	590	32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1200	280	ug/kg	
75-15-0	Carbon disulfide	ND	590	14	ug/kg	
56-23-5	Carbon tetrachloride	ND	590	16	ug/kg	
108-90-7	Chlorobenzene	ND	590	13	ug/kg	
75-00-3	Chloroethane	31900 ^b	15000	670	ug/kg	
67-66-3	Chloroform	62.9	590	9.7	ug/kg	J
74-87-3	Chloromethane	ND	590	22	ug/kg	
110-82-7	Cyclohexane	ND	590	15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	100	ug/kg	
124-48-1	Dibromochloromethane	ND	590	19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	120	15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	590	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	590	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	590	21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	590	27	ug/kg	
75-34-3	1,1-Dichloroethane	172000 ^b	15000	400	ug/kg	
107-06-2	1,2-Dichloroethane	305	120	16	ug/kg	
75-35-4	1,1-Dichloroethene	59600 ^b	15000	750	ug/kg	
156-59-2	cis-1,2-Dichloroethene	543	590	22	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	590	28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	590	18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	590	16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	590	18	ug/kg	
123-91-1	1,4-Dioxane	ND	15000	7000	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	807	120	31	ug/kg	
76-13-1	Freon 113	ND	590	51	ug/kg	
591-78-6	2-Hexanone	ND	590	73	ug/kg	
98-82-8	Isopropylbenzene	253	590	8.7	ug/kg	J
79-20-9	Methyl Acetate	2670	590	310	ug/kg	
108-87-2	Methylcyclohexane	ND	590	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	120	28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	590	88	ug/kg	
75-09-2	Methylene chloride	ND	590	150	ug/kg	
100-42-5	Styrene	ND	590	11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	590	16	ug/kg	
127-18-4	Tetrachloroethene	23400	590	20	ug/kg	
108-88-3	Toluene	58000 ^b	2900	310	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	590	19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	590	16	ug/kg	
71-55-6	1,1,1-Trichloroethane	9290000 ^c	1500000	31000	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	590	20	ug/kg	
79-01-6	Trichloroethene	88800 ^b	15000	510	ug/kg	
75-69-4	Trichlorofluoromethane	155	590	35	ug/kg	J
75-01-4	Vinyl chloride	314	590	17	ug/kg	J
	m,p-Xylene	2460	120	20	ug/kg	
95-47-6	o-Xylene	1230	120	16	ug/kg	
1330-20-7	Xylene (total)	3690	120	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	84%	98%	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	71%	83%	97%	70-122%
2037-26-5	Toluene-D8	95%	105%	111%	81-127%
460-00-4	4-Bromofluorobenzene	92%	97%	97%	66-132%

(a) Sample analyzed outside the holding time due to scheduling error.

(b) Result is from Run# 2

(c) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E50320.D	4	05/21/13	NAP	05/01/13	OP65702	E3E2176
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1100	220	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	220	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	370	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4500	270	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4500	270	ug/kg	
95-48-7	2-Methylphenol	ND	450	250	ug/kg	
	3&4-Methylphenol	ND	450	280	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	240	ug/kg	
100-02-7	4-Nitrophenol	ND	2200	380	ug/kg	
87-86-5	Pentachlorophenol	ND	2200	380	ug/kg	
108-95-2	Phenol	ND	450	230	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1100	230	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	260	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	210	ug/kg	
83-32-9	Acenaphthene	ND	220	65	ug/kg	
208-96-8	Acenaphthylene	ND	220	71	ug/kg	
98-86-2	Acetophenone	ND	1100	39	ug/kg	
120-12-7	Anthracene	ND	220	78	ug/kg	
1912-24-9	Atrazine	ND	1100	44	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	73	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	68	ug/kg	
205-99-2	Benzo(b)fluoranthene	207	220	74	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	117	220	83	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	220	84	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	450	81	ug/kg	
85-68-7	Butyl benzyl phthalate	318	450	130	ug/kg	J
92-52-4	1,1'-Biphenyl	ND	450	26	ug/kg	
100-52-7	Benzaldehyde	ND	1100	51	ug/kg	
91-58-7	2-Chloronaphthalene	ND	450	69	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	71	ug/kg	
86-74-8	Carbazole	ND	450	100	ug/kg	

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	450	70	ug/kg	
218-01-9	Chrysene	310	220	75	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	450	90	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	450	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	450	66	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	450	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	450	97	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	450	85	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	1100	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	76	ug/kg	
132-64-9	Dibenzofuran	ND	450	66	ug/kg	
84-74-2	Di-n-butyl phthalate	4480	450	49	ug/kg	
117-84-0	Di-n-octyl phthalate	391	450	110	ug/kg	J
84-66-2	Diethyl phthalate	624	450	76	ug/kg	
131-11-3	Dimethyl phthalate	ND	450	78	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	9220	450	200	ug/kg	
206-44-0	Fluoranthene	207	220	98	ug/kg	J
86-73-7	Fluorene	ND	220	73	ug/kg	
118-74-1	Hexachlorobenzene	ND	450	73	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	62	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2200	230	ug/kg	
67-72-1	Hexachloroethane	ND	1100	62	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	77	ug/kg	
78-59-1	Isophorone	ND	450	60	ug/kg	
91-57-6	2-Methylnaphthalene	143	450	120	ug/kg	J
88-74-4	2-Nitroaniline	ND	1100	98	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	89	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	87	ug/kg	
91-20-3	Naphthalene	161	220	61	ug/kg	J
98-95-3	Nitrobenzene	ND	450	64	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	450	54	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1100	130	ug/kg	
85-01-8	Phenanthrene	399	220	100	ug/kg	
129-00-0	Pyrene	185	220	85	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1100	68	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		12-109%
4165-62-2	Phenol-d5	53%		14-108%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59%		20-138%
4165-60-0	Nitrobenzene-d5	56%		11-119%
321-60-8	2-Fluorobiphenyl	52%		17-115%
1718-51-0	Terphenyl-d14	57%		30-141%

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Report of Analysis

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Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31344.D	1	05/03/13	DS	04/30/13	OP65674	G4G785
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.1	0.49	ug/kg	
319-84-6	alpha-BHC	ND	1.1	0.32	ug/kg	
319-85-7	beta-BHC	ND	1.1	0.66	ug/kg	
319-86-8	delta-BHC	ND	1.1	0.52	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.1	0.52	ug/kg	
5103-71-9	alpha-Chlordane	62.3	1.1	0.39	ug/kg	
5103-74-2	gamma-Chlordane ^a	86.8	1.1	0.73	ug/kg	
60-57-1	Dieldrin	38.8	1.1	0.41	ug/kg	
72-54-8	4,4' -DDD	ND	1.1	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	1.1	0.43	ug/kg	
50-29-3	4,4' -DDT	ND	1.1	0.52	ug/kg	
72-20-8	Endrin	ND	1.1	0.34	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.1	0.46	ug/kg	
7421-93-4	Endrin aldehyde	ND	1.1	0.55	ug/kg	
959-98-8	Endosulfan-I	ND	1.1	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	1.1	0.64	ug/kg	
76-44-8	Heptachlor	ND	1.1	0.52	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.1	0.40	ug/kg	
72-43-5	Methoxychlor	ND	2.1	1.0	ug/kg	
53494-70-5	Endrin ketone	ND	1.1	0.43	ug/kg	
8001-35-2	Toxaphene	ND	27	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		11-151%
877-09-8	Tetrachloro-m-xylene	768% ^b		11-151%
2051-24-3	Decachlorobiphenyl	45%		11-170%
2051-24-3	Decachlorobiphenyl	139%		11-170%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SD-2 (3-4 FT)	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-11	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	59.7
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G80906.D	1	05/04/13	JR	04/30/13	OP65675	G2G2653
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	53	14	ug/kg	
11104-28-2	Aroclor 1221	ND	53	32	ug/kg	
11141-16-5	Aroclor 1232	ND	53	27	ug/kg	
53469-21-9	Aroclor 1242	ND	53	17	ug/kg	
12672-29-6	Aroclor 1248	ND	53	16	ug/kg	
11097-69-1	Aroclor 1254	ND	53	25	ug/kg	
11096-82-5	Aroclor 1260	ND	53	17	ug/kg	
11100-14-4	Aroclor 1268	ND	53	16	ug/kg	
37324-23-5	Aroclor 1262	ND	53	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	199% ^a		17-146%
877-09-8	Tetrachloro-m-xylene	1414% ^a		17-146%
2051-24-3	Decachlorobiphenyl	47%		12-155%
2051-24-3	Decachlorobiphenyl	63%		12-155%

(a) Outside control limits due to matrix interference.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SD-2 (3-4 FT)**Lab Sample ID:** JB35522-11**Matrix:** SO - Soil**Date Sampled:** 04/23/13**Date Received:** 04/27/13**Percent Solids:** 59.7**Project:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5170	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Antimony	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Arsenic	3.1	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Barium	63.4	20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.29	0.20	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cadmium	1.5	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Calcium	29300	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Chromium	21.7	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Cobalt	< 5.0	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Copper	256	2.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Iron	13600	50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Lead	114	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Magnesium	2830	500	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Manganese	175	1.5	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Mercury	0.60	0.051	mg/kg	1	05/03/13	05/03/13 SK	SW846 7471B ¹	SW846 7471B ⁴
Nickel	12.6	4.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Potassium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Selenium	< 2.0	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Silver	0.74	0.50	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Sodium	< 1000	1000	mg/kg	1	05/06/13	05/11/13 ND	SW846 6010C ³	SW846 3050B ⁵
Thallium	< 1.0	1.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Vanadium	20.3	5.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵
Zinc	269	2.0	mg/kg	1	05/06/13	05/10/13 GT	SW846 6010C ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA31122

(2) Instrument QC Batch: MA31159

(3) Instrument QC Batch: MA31175

(4) Prep QC Batch: MP71740

(5) Prep QC Batch: MP71771

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C115874.D	1	05/07/13	TYG	n/a	n/a	V1C5135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		81-121%
17060-07-0	1,2-Dichloroethane-D4	90%		74-127%
2037-26-5	Toluene-D8	91%		80-122%
460-00-4	4-Bromofluorobenzene	88%		78-116%

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P73634.D	1	05/14/13	NAP	04/30/13	OP65680	EP3144
Run #2 ^a	P73528.D	1	05/11/13	NAP	05/03/13	OP65786	EP3140

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.0	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.97	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.6	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.5	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.1	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	0.99	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.28	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.24	ug/l	
98-86-2	Acetophenone	ND	2.1	0.30	ug/l	
120-12-7	Anthracene	ND	1.1	0.30	ug/l	
1912-24-9	Atrazine	ND	5.3	0.51	ug/l	
100-52-7	Benzaldehyde	ND	5.3	3.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.54	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.30	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.32	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.56	ug/l	
86-74-8	Carbazole	ND	1.1	0.38	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.73	ug/l	
218-01-9	Chrysene	ND	1.1	0.30	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.32	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.48	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.33	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.49	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.3	0.38	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.40	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.32	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.34	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.62	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.33	ug/l	
86-73-7	Fluorene	ND	1.1	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	7.5	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.58	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.39	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.7	ug/l	
91-20-3	Naphthalene	ND	1.1	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.44	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.32	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.32	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.31	ug/l	
129-00-0	Pyrene	ND	1.1	0.28	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%	45%	10-83%
4165-62-2	Phenol-d5	27%	29%	10-74%

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Report of Analysis

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Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JB35522-12	Date Sampled:	04/23/13
Matrix:	AQ - Field Blank Soil	Date Received:	04/27/13
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	89%	97%	24-148%
4165-60-0	Nitrobenzene-d5	77%	80%	38-129%
321-60-8	2-Fluorobiphenyl	79%	85%	42-117%
1718-51-0	Terphenyl-d14	92%	97%	14-132%

(a) Confirmation run.

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Report of Analysis

Page 1 of 1

Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G31212.D	1	04/30/13	DS	04/29/13	OP65661	G4G782
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0083	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0024	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0018	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0030	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0022	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0017	ug/l	
72-54-8	4,4' -DDD	ND	0.011	0.0026	ug/l	
72-55-9	4,4' -DDE	ND	0.011	0.0018	ug/l	
50-29-3	4,4' -DDT	ND	0.011	0.0033	ug/l	
72-20-8	Endrin	ND	0.011	0.0021	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0039	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0030	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0021	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0023	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0028	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0043	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		26-145%
877-09-8	Tetrachloro-m-xylene	58%		26-145%
2051-24-3	Decachlorobiphenyl	45%		10-141%
2051-24-3	Decachlorobiphenyl	45%		10-141%

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Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF119913.D	1	04/30/13	JR	04/29/13	OP65660	GEF4743
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.53	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.53	0.29	ug/l	
11141-16-5	Aroclor 1232	ND	0.53	0.41	ug/l	
53469-21-9	Aroclor 1242	ND	0.53	0.091	ug/l	
12672-29-6	Aroclor 1248	ND	0.53	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.53	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.53	0.22	ug/l	
11100-14-4	Aroclor 1268	ND	0.53	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.53	0.063	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		25-143%
877-09-8	Tetrachloro-m-xylene	64%		25-143%
2051-24-3	Decachlorobiphenyl	44%		10-134%
2051-24-3	Decachlorobiphenyl	54%		10-134%

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Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	04/23/13
Lab Sample ID:	JB35522-12	Date Received:	04/27/13
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Calcium	< 5000	5000	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Magnesium	< 5000	5000	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Manganese	< 15	15	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	05/01/13	05/01/13 CS	SW846 7470A ¹	SW846 7470A ³
Nickel	< 10	10	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Sodium	< 10000	10000	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	05/03/13	05/09/13 JY	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA31101

(2) Instrument QC Batch: MA31151

(3) Prep QC Batch: MP71675

(4) Prep QC Batch: MP71722

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	S1 (7 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-13	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.3
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D208581.D	1	05/07/13	ET	n/a	n/a	VD8512
Run #2 ^a	C181800.D	1	05/09/13	TYG	n/a	n/a	VC6542

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2	5.0 g	5.0 ml	20.0 ul

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	630	110	ug/kg	
71-43-2	Benzene	13.1	63	7.5	ug/kg	J
74-97-5	Bromochloromethane	ND	320	17	ug/kg	
75-27-4	Bromodichloromethane	ND	320	6.6	ug/kg	
75-25-2	Bromoform	ND	320	9.6	ug/kg	
74-83-9	Bromomethane	ND	320	17	ug/kg	
78-93-3	2-Butanone (MEK)	ND	630	150	ug/kg	
75-15-0	Carbon disulfide	ND	320	7.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	8.4	ug/kg	
108-90-7	Chlorobenzene	ND	320	6.8	ug/kg	
75-00-3	Chloroethane	736	320	14	ug/kg	
67-66-3	Chloroform	ND	320	5.2	ug/kg	
74-87-3	Chloromethane	ND	320	12	ug/kg	
110-82-7	Cyclohexane	137	320	7.8	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	630	56	ug/kg	
124-48-1	Dibromochloromethane	ND	320	10	ug/kg	
106-93-4	1,2-Dibromoethane	ND	63	8.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	320	12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	320	12	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	320	11	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	320	14	ug/kg	
75-34-3	1,1-Dichloroethane	30.9	320	8.7	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	63	8.5	ug/kg	
75-35-4	1,1-Dichloroethene	ND	320	16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	24.9	320	12	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	34.4	320	15	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	320	9.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	8.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	9.8	ug/kg	
123-91-1	1,4-Dioxane	ND	7900	3800	ug/kg	
100-41-4	Ethylbenzene	8880	63	17	ug/kg	
76-13-1	Freon 113	ND	320	27	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	S1 (7 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-13	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.3
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	320	39	ug/kg	
98-82-8	Isopropylbenzene	3200	320	4.7	ug/kg	
79-20-9	Methyl Acetate	388	320	160	ug/kg	
108-87-2	Methylcyclohexane	142	320	11	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	63	15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	320	48	ug/kg	
75-09-2	Methylene chloride	ND	320	80	ug/kg	
100-42-5	Styrene	ND	320	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	8.3	ug/kg	
127-18-4	Tetrachloroethene	61.9	320	11	ug/kg	J
108-88-3	Toluene	1260	63	6.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	320	10	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	8.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	354	320	6.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	11	ug/kg	
79-01-6	Trichloroethene	60.3	320	11	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	320	19	ug/kg	
75-01-4	Vinyl chloride	ND	320	9.1	ug/kg	
	m,p-Xylene	14300	63	11	ug/kg	
95-47-6	o-Xylene	3510	63	8.8	ug/kg	
1330-20-7	Xylene (total)	17800	63	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	95%	87%	70-122%
2037-26-5	Toluene-D8	101%	110%	81-127%
460-00-4	4-Bromofluorobenzene	135% ^b	116%	66-132%

(a) confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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Report of Analysis

Page 1 of 2

Client Sample ID:	S2 (5 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-14	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.7
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C98063.D	1	05/01/13	JTP	n/a	n/a	V3C4351
Run #2	C181795.D	1	05/09/13	TYG	n/a	n/a	VC6542

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.5 g		
Run #2	5.0 g	5.0 ml	100 ul

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.1	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.28	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	9.7	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	0.44	1.3	0.17	ug/kg	J
75-35-4	1,1-Dichloroethene	0.49	6.3	0.32	ug/kg	J
156-59-2	cis-1,2-Dichloroethene	0.32	6.3	0.23	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	75	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	S2 (5 FT)	Date Sampled:	04/25/13
Lab Sample ID:	JB35522-14	Date Received:	04/27/13
Matrix:	SO - Soil	Percent Solids:	88.7
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.093	ug/kg	
79-20-9	Methyl Acetate	8.5	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
75-09-2	Methylene chloride	3.7	6.3	1.6	ug/kg	J
100-42-5	Styrene	ND	6.3	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	12.6	6.3	0.22	ug/kg	
108-88-3	Toluene	0.33	1.3	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	1110 ^a	310	6.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.43	6.3	0.22	ug/kg	J
79-01-6	Trichloroethene	8.9	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	76%	86%	70-122%
2037-26-5	Toluene-D8	93%	109%	81-127%
460-00-4	4-Bromofluorobenzene	90%	98%	66-132%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499-3480
www.acctest.com

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # JB35522	
Client / Reporting Information		Project Information	
Company Name Car Rich Consultants		Project Name Former Zoe Chemical Site	
Street Address 17 DuPont Street		Street 1801 Falmouth Ave	
City Plainview NY 11803		City New Hyde Park NY	
Project Contact Jessica Proscia		Billing Information (if different from Report to)	
Phone # 516/526-8844		Company Name	
Fax #		Street Address	
Client Purchase Order #		City	
Project Manager		State	
Project #		Zip	
Attention:			
Requested Analysis (see TEST CODE sheet)		Matrix Codes	
TCL VOC 8060C TCL SVOC 8070 Pesticides 8081 PCB 8082 Total Hal Metals SVOC 8080		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
LAB USE ONLY			
1 CB-1 (0-2ft) 2 CB-2 (0-2ft) 3 CB-3 (0-2ft) 4 CB-4 (0-2ft) 5 CB-5 (0-2ft) 6 CB-6 (1-9ft) 7 CB-6 (10-12ft) 8 CB-X 1 CB-2MS (0-2ft) 2 CB-2MSD (0-2ft) 9 TRIP Blank Field Blank JP		MEQ/DT/Vial # Date Time Sampled by Matrix # of bottles HCl NaOH HNO3 H2SO4 NONE DI Water MEQ INCORE	
Turnaround Time (Business days)		Data Deliverable Information	
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☒ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other	
Approved By (Accutest PM): / Date:		Comments / Special Instructions	
		JProscia@carichline.com	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler:	Date Time:	Received By:	
1 JP	4/22/13 9:40	Chris Lant	
Relinquished by Sampler:	Date Time:	Received By:	
3		3	
Relinquished by:	Date Time:	Received By:	
5		5	
Custody Seal #	Preserved where applicable		On Ice
			Cooler Temp. 3.0°C

JB35522: Chain of Custody

Page 1 of 4

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # JB35522	

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name: Ca Rich Consultants Street Address: 17 Dupont St City: Plainville NJ State: NJ Zip: 08861 Project Contact: Jessica Proscia E-mail: jessica@carich.com Phone #: (609) 576-8841 Fax #: (609) 576-8841 Sampler(s) Name(s): Jessica Proscia	Project Name: Former Zoe Chemical Street: 1801 Falmouth City: New Hyde Park, NY State: NY Billing Information (if different from Report to) Company Name: New Hyde Park, NY Street Address: City: State: Zip: Client Purchase Order # Project Manager Attention: 	TCL VOC 8080 C TCL VOC 8080 Pesticides 8081 PCB 8082 Total halogens SW8010 SW7170	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection	Number of preserved Bottles	LAB USE ONLY
Date	Time	Sampled by	Matrix	# of bottles	
4/23/13	11:55	JP	SO	3	
4/23/13	12:45	JP	SO	3	
4/23/13	2:00	JP	SO	3	
4/25/13	8:22	JP	SO	2	
4/25/13	8:30	JP	SO	2	

Turnaround Time (Business days)	Approved By (Accutest PM): / Date:	Data Deliverable Information	Comments / Special Instructions
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other	Approved By (Accutest PM): / Date: _____ _____ _____ _____ _____	☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☒ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other	_____ _____ _____ _____ _____

Relinquished by Sampler	Date Time	Received By	Date Time	Relinquished by	Date Time	Received By	Date Time
1	4/26/13 9:40	Chris Lant	4/26/13 1650	2	4/26/13		
3				4			
5							

Emergency & Rush TIA data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including carrier delivery.

Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable ☐ On Ice ☐ Cooler Temp. ☐

JB35522: Chain of Custody

Page 2 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB35522 **Client:** CA RICH **Project:** FORMER ZOE CHEMICAL SITE
Date / Time Received: 4/26/2013 16:50 **Delivery Method:** Accutest Courier **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (3/3): 0

Cooler Security
Y or N
Y or N

1. Custody Seals Present: ☒ Y ☐ N	3. COC Present: ☒ Y ☐ N
2. Custody Seals Intact: ☒ Y ☐ N	4. Smpl Dates/Time OK: ☒ Y ☐ N

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ Y ☐ N	
2. Cooler temp verification: Bar Therm	
3. Cooler media: Ice (bag)	
4. No, Coolers	

Quality Control Preservation
Y
N
N/A

1. Trip Blank present / cooler: ☒ Y ☐ N	N/A
2. Trip Blank listed on COC: ☒ Y ☐ N	
3. Samples preserved properly: ☒ Y ☐ N	
4. VOCs headspace free: ☒ Y ☐ N	

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ Y ☐ N	2. Container labeling complete: ☒ Y ☐ N
3. Sample container label / COC agree: ☒ Y ☐ N	

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ Y ☐ N	2. All containers accounted for: ☒ Y ☐ N
3. Condition of sample: Intact	

Sample Integrity - Instructions
Y
N
N/A

1. Analysis requested is clear: ☐ Y ☒ N	N/A
2. Bottles received for unspecified tests: ☒ Y ☐ N	
3. Sufficient volume recvd for analysis: ☒ Y ☐ N	
4. Compositing instructions clear: ☐ Y ☐ N	☒
5. Filtering instructions clear: ☐ Y ☐ N	☒

Comments -12 Only has three EXT bottles, note limited EXT volume. Also there is an unpreserved LF metal bottle. Is this needed?

Accutest Job Number: JB35522

CSR: Michelle

Response Date: 4/29/2013

Response: -12, proceed w/the 3 EXT volume for all analysis. Dissolved metals are not needed

5.1

5



11/05/13

Technical Report for

C. A. Rich Consultants

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Accutest Job Number: JB37099

Sampling Date: 05/14/13

Report to:

C. A. Rich Consultants

jproscia@carichinc.com

ATTN: Jessica Proscia

Total number of pages in report: **70**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

C. A. Rich Consultants

Job No: JB37099

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB37099-1	05/14/13	10:43	JP	05/15/13	AQ	Ground Water	MW-1
JB37099-1D	05/14/13	10:56	JP	05/15/13	AQ	Water Dup/MSD	MW-1
JB37099-1DF	05/14/13	10:56	JP	05/15/13	AQ	Water Dup/MSD	MW-1
JB37099-1F	05/14/13	10:43	JP	05/15/13	AQ	Groundwater Filtered	MW-1
JB37099-1S	05/14/13	10:47	JP	05/15/13	AQ	Water Matrix Spike	MW-1
JB37099-1SF	05/14/13	10:47	JP	05/15/13	AQ	Water Matrix Spike	MW-1
JB37099-2	05/14/13	13:20	JP	05/15/13	AQ	Ground Water	MW-2
JB37099-2F	05/14/13	13:20	JP	05/15/13	AQ	Groundwater Filtered	MW-2
JB37099-3	05/14/13	14:58	JP	05/15/13	AQ	Ground Water	MW-3
JB37099-3F	05/14/13	14:58	JP	05/15/13	AQ	Groundwater Filtered	MW-3
JB37099-4	05/14/13	15:57	JP	05/15/13	AQ	Ground Water	MW-4
JB37099-5	05/14/13	00:00	JP	05/15/13	AQ	Ground Water	MW-X
JB37099-5F	05/14/13	00:00	JP	05/15/13	AQ	Groundwater Filtered	MW-X



Sample Summary
(continued)

C. A. Rich Consultants

Job No: JB37099

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB37099-6	05/14/13	17:00	JP	05/15/13	AQ	Field Blank Water	FIELD BLANK 5/14/13
JB37099-6F	05/14/13	17:00	JP	05/15/13	AQ	Field Blank Filtered	FIELD BLANK 5/14/13
JB37099-7	05/14/13	17:00	JP	05/15/13	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants**Job No** JB37099**Site:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,**Report Date** 6/17/2013 10:49:57 A

On 05/15/2013, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB37099 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ**Batch ID:** V3A5157

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB36917-3MS, JB36917-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ**Batch ID:** V3A5158

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- V3A5158-BS for Methyl Acetate: Outside control limits. No associated sample required/reported for this compound.

Matrix: AQ**Batch ID:** V3A5160

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37278-1MS, JB37278-1MSD were used as the QC samples indicated.
- V3A5160-BS for Methyl Acetate: High percent recoveries and no associated positive found in the QC batch.
- JB37278-1MS/MSD for Methyl Acetate: Outside control limits.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ**Batch ID:** M:OP33206

- The data for SW846 8270C meets quality control requirements.
- JB37099-2: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-3: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-4: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-5: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-6: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JB37099-1: Analysis performed at Accutest Laboratories, Marlborough, MA.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP66081

- All samples were extracted within the recommended method holding time.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB37099-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP66080

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP72029

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1FMS, JB37099-1FMDS, JB37099-1FSDL, JB37099-1MS, JB37099-1MSD, JB37099-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Antimony, Beryllium, Chromium, Cobalt, Copper, Iron, Nickel, Thallium, Zinc, Aluminum, Cadmium are outside control limits for sample MP72029-SD1, MP72029-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP72211

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1FMS, JB37099-1FMDS, JB37099-1MS, JB37099-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey

Job No JB37099

Site: CARICH: Former Zoe Chemical Site, 1801 Falmouth Avenue, New H

Report Date 6/16/2013 11:10:21 AM

5 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were collected on 05/14/2013 and were received at Accutest on 05/15/2013 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of JB37099. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ

Batch ID: OP33206

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB37099-1MS, JB37099-1MSD were used as the QC samples indicated.
- OP33206-MS/MSD for Caprolactam are outside control limits due to possible matrix interference. Refer to Blank Spike.
- OP33206-MSD for 2,4-Dinitrophenol are outside control limits. Meets program technical requirements.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (JB37099).

Summary of Hits

Job Number: JB37099

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 05/14/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
JB37099-1 MW-1						
Chloroform		3.0	1.0	0.20	ug/l	SW846 8260B
Tetrachloroethene		3.0	1.0	0.28	ug/l	SW846 8260B
alpha-Chlordane ^a		0.036	0.010	0.0029	ug/l	SW846 8081B
gamma-Chlordane		0.022	0.010	0.0021	ug/l	SW846 8081B
Dieldrin		0.091	0.010	0.0016	ug/l	SW846 8081B
Endosulfan-I		0.029	0.010	0.0028	ug/l	SW846 8081B
Heptachlor epoxide		0.019	0.010	0.0026	ug/l	SW846 8081B
Barium		231	200		ug/l	SW846 6010C
Calcium		100000	5000		ug/l	SW846 6010C
Magnesium		9380	5000		ug/l	SW846 6010C
Manganese		970	15		ug/l	SW846 6010C
Sodium		170000	10000		ug/l	SW846 6010C
JB37099-1F MW-1						
Barium		228	200		ug/l	SW846 6010C
Calcium		100000	5000		ug/l	SW846 6010C
Magnesium		9340	5000		ug/l	SW846 6010C
Manganese		948	15		ug/l	SW846 6010C
Sodium		170000	10000		ug/l	SW846 6010C
JB37099-2 MW-2						
1,4-Dichlorobenzene		0.32 J	1.0	0.30	ug/l	SW846 8260B
cis-1,2-Dichloroethene		1.8	1.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		8.0	1.0	0.28	ug/l	SW846 8260B
1,1,1-Trichloroethane		2.5	1.0	0.24	ug/l	SW846 8260B
Trichloroethene		2.3	1.0	0.22	ug/l	SW846 8260B
Calcium		86100	5000		ug/l	SW846 6010C
Magnesium		11100	5000		ug/l	SW846 6010C
Manganese		1850	15		ug/l	SW846 6010C
Potassium		11900	10000		ug/l	SW846 6010C
Sodium		86000	10000		ug/l	SW846 6010C
JB37099-2F MW-2						
Calcium		82300	5000		ug/l	SW846 6010C
Magnesium		10400	5000		ug/l	SW846 6010C
Manganese		1810	15		ug/l	SW846 6010C
Potassium		11600	10000		ug/l	SW846 6010C
Sodium		84100	10000		ug/l	SW846 6010C

Summary of Hits

Job Number: JB37099

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 05/14/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB37099-3 MW-3

Tetrachloroethene	3.6	1.0	0.28	ug/l	SW846 8260B
Isophorone ^b	0.56 J	5.0	0.20	ug/l	SW846 8270C
Aluminum	348	200		ug/l	SW846 6010C
Calcium	38100	5000		ug/l	SW846 6010C
Iron	731	100		ug/l	SW846 6010C
Magnesium	5590	5000		ug/l	SW846 6010C
Manganese	36.5	15		ug/l	SW846 6010C
Sodium	71300	10000		ug/l	SW846 6010C

JB37099-3F MW-3

Calcium	38600	5000		ug/l	SW846 6010C
Magnesium	5660	5000		ug/l	SW846 6010C
Manganese	19.1	15		ug/l	SW846 6010C
Sodium	71900	10000		ug/l	SW846 6010C

JB37099-4 MW-4

Acetone	235	100	33	ug/l	SW846 8260B
Benzene	21.9	1.0	0.24	ug/l	SW846 8260B
Carbon disulfide	0.74 J	2.0	0.19	ug/l	SW846 8260B
Chloroethane	1630	20	5.2	ug/l	SW846 8260B
Chloromethane	4.5	1.0	0.21	ug/l	SW846 8260B
1,1-Dichloroethane	1790	10	1.1	ug/l	SW846 8260B
1,2-Dichloroethane	3.0	1.0	0.26	ug/l	SW846 8260B
1,1-Dichloroethene	42.5	1.0	0.19	ug/l	SW846 8260B
cis-1,2-Dichloroethene	97.1	1.0	0.19	ug/l	SW846 8260B
trans-1,2-Dichloroethene	14.5	1.0	0.21	ug/l	SW846 8260B
Ethylbenzene	47.1	1.0	0.23	ug/l	SW846 8260B
Isopropylbenzene	6.3	2.0	0.45	ug/l	SW846 8260B
Methyl Tert Butyl Ether	0.44 J	1.0	0.16	ug/l	SW846 8260B
Methylene chloride	69.1	2.0	0.70	ug/l	SW846 8260B
Tetrachloroethene	13.2	1.0	0.28	ug/l	SW846 8260B
Toluene	347	10	2.3	ug/l	SW846 8260B
1,1,1-Trichloroethane	962	10	2.4	ug/l	SW846 8260B
1,1,2-Trichloroethane	10.3	1.0	0.29	ug/l	SW846 8260B
Trichloroethene	198	1.0	0.22	ug/l	SW846 8260B
Trichlorofluoromethane	1.2 J	5.0	0.27	ug/l	SW846 8260B
Vinyl chloride	45.5	1.0	0.21	ug/l	SW846 8260B
m,p-Xylene	72.6	1.0	0.42	ug/l	SW846 8260B
o-Xylene	38.8	1.0	0.24	ug/l	SW846 8260B
Xylene (total)	111	1.0	0.24	ug/l	SW846 8260B
3&4-Methylphenol ^b	200	24	4.8	ug/l	SW846 8270C

Summary of Hits

Job Number: JB37099**Account:** C. A. Rich Consultants**Project:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY**Collected:** 05/14/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenol ^b		107	12	1.2	ug/l	SW846 8270C
Butyl benzyl phthalate ^b		5.0 J	12	2.0	ug/l	SW846 8270C
bis(2-Chloroethyl)ether ^b		15.0	12	0.55	ug/l	SW846 8270C
Di-n-butyl phthalate ^b		260	12	0.92	ug/l	SW846 8270C
Diethyl phthalate ^b		195	12	1.2	ug/l	SW846 8270C
bis(2-Ethylhexyl)phthalate ^b		16.5	4.8	1.2	ug/l	SW846 8270C
2-Methylnaphthalene ^b		2.5 J	4.8	0.93	ug/l	SW846 8270C

JB37099-5 MW-X

Tetrachloroethene	1.5	1.0	0.28	ug/l	SW846 8260B
Di-n-butyl phthalate ^b	0.65 J	5.3	0.41	ug/l	SW846 8270C
bis(2-Ethylhexyl)phthalate ^b	0.59 J	2.1	0.51	ug/l	SW846 8270C
Isophorone ^b	0.54 J	5.3	0.21	ug/l	SW846 8270C
Aluminum	6850	200		ug/l	SW846 6010C
Calcium	39400	5000		ug/l	SW846 6010C
Chromium	33.4	10		ug/l	SW846 6010C
Copper	10.9	10		ug/l	SW846 6010C
Iron	14300	100		ug/l	SW846 6010C
Lead	5.9	3.0		ug/l	SW846 6010C
Magnesium	6560	5000		ug/l	SW846 6010C
Manganese	333	15		ug/l	SW846 6010C
Nickel	15.4	10		ug/l	SW846 6010C
Sodium	72400	10000		ug/l	SW846 6010C
Zinc	26.3	20		ug/l	SW846 6010C

JB37099-5F MW-X

Calcium	39400	5000		ug/l	SW846 6010C
Magnesium	5810	5000		ug/l	SW846 6010C
Manganese	22.8	15		ug/l	SW846 6010C
Sodium	73500	10000		ug/l	SW846 6010C

JB37099-6 FIELD BLANK 5/14/13

No hits reported in this sample.

JB37099-6F FIELD BLANK 5/14/13

No hits reported in this sample.

JB37099-7 TRIP BLANK

No hits reported in this sample.

Summary of Hits

Page 4 of 4

Job Number: JB37099

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 05/14/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Analysis performed at Accutest Laboratories, Marlborough, MA.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119635.D	1	05/20/13	DP	n/a	n/a	V3A5158
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	3.0	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	3.0	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		81-121%
17060-07-0	1,2-Dichloroethane-D4	91%		74-127%
2037-26-5	Toluene-D8	95%		80-122%
460-00-4	4-Bromofluorobenzene	89%		78-116%

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12352.D	1	05/22/13	AMA	05/18/13	M:OP33206	M:MSW569
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	10	0.65	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
83-32-9	Acenaphthene	ND	2.1	0.24	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.58	ug/l	
98-86-2	Acetophenone	ND	10	0.42	ug/l	
120-12-7	Anthracene	ND	2.1	0.21	ug/l	
1912-24-9	Atrazine	ND	10	10	ug/l	
100-52-7	Benzaldehyde	ND	21	21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.28	ug/l	
92-52-4	1,1'-Biphenyl	ND	10	10	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
105-60-2	Caprolactam	ND	10	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit

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Report of Analysis

Page 2 of 3

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	2.1	0.22	ug/l	
218-01-9	Chrysene	ND	2.1	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.2	0.52	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.22	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
206-44-0	Fluoranthene	ND	2.1	0.23	ug/l	
86-73-7	Fluorene	ND	2.1	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	0.28	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
91-20-3	Naphthalene	ND	2.1	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.22	ug/l	
129-00-0	Pyrene	ND	2.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	25%		15-110%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71%		15-110%
4165-60-0	Nitrobenzene-d5	105%		30-130%
321-60-8	2-Fluorobiphenyl	99%		30-130%
1718-51-0	Terphenyl-d14	97%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91485.D	1	05/17/13	DS	05/16/13	OP66081	G1G3006
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane ^a	0.036	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	0.022	0.010	0.0021	ug/l	
60-57-1	Dieldrin	0.091	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	0.029	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	0.019	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-145%
877-09-8	Tetrachloro-m-xylene	77%		26-145%
2051-24-3	Decachlorobiphenyl	77%		10-141%
2051-24-3	Decachlorobiphenyl	78%		10-141%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF120412.D	1	05/21/13	JR	05/16/13	OP66080	GEF4761
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		25-143%
877-09-8	Tetrachloro-m-xylene	78%		25-143%
2051-24-3	Decachlorobiphenyl	71%		10-134%
2051-24-3	Decachlorobiphenyl	74%		10-134%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-1	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-1	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	231	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	100000	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	9380	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	970	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	170000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-1	Date Sampled: 05/14/13
Lab Sample ID: JB37099-1F	Date Received: 05/15/13
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	228	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	100000	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	9340	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	948	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	170000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119636.D	1	05/20/13	DP	n/a	n/a	V3A5158
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.32	1.0	0.30	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.8	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	8.0	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	2.5	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	2.3	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		81-121%
17060-07-0	1,2-Dichloroethane-D4	91%		74-127%
2037-26-5	Toluene-D8	95%		80-122%
460-00-4	4-Bromofluorobenzene	90%		78-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12353.D	1	05/22/13	AMA	05/18/13	M:OP33206	M:MSW569
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	10	0.63	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.56	ug/l	
98-86-2	Acetophenone	ND	10	0.41	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
1912-24-9	Atrazine	ND	10	10	ug/l	
100-52-7	Benzaldehyde	ND	20	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.25	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
92-52-4	1,1'-Biphenyl	ND	10	10	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
105-60-2	Caprolactam	ND	10	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	2.0	0.21	ug/l	
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.22	ug/l	
86-73-7	Fluorene	ND	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.39	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
91-20-3	Naphthalene	ND	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.21	ug/l	
129-00-0	Pyrene	ND	2.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	31%		15-110%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	105%		30-130%
321-60-8	2-Fluorobiphenyl	100%		30-130%
1718-51-0	Terphenyl-d14	91%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91486.D	1	05/17/13	DS	05/16/13	OP66081	G1G3006
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		26-145%
877-09-8	Tetrachloro-m-xylene	63%		26-145%
2051-24-3	Decachlorobiphenyl	66%		10-141%
2051-24-3	Decachlorobiphenyl	68%		10-141%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-2	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-2	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF120413.D	1	05/21/13	JR	05/16/13	OP66080	GEF4761
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		25-143%
877-09-8	Tetrachloro-m-xylene	65%		25-143%
2051-24-3	Decachlorobiphenyl	61%		10-134%
2051-24-3	Decachlorobiphenyl	60%		10-134%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: MW-2	Date Sampled: 05/14/13
Lab Sample ID: JB37099-2	Date Received: 05/15/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	86100	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	11100	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	1850	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	11900	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	86000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-2	Date Sampled: 05/14/13
Lab Sample ID: JB37099-2F	Date Received: 05/15/13
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	82300	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	10400	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	1810	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	11600	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	84100	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119637.D	1	05/20/13	DP	n/a	n/a	V3A5158
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: MW-3	Date Sampled: 05/14/13
Lab Sample ID: JB37099-3	Date Received: 05/15/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	3.6	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		81-121%
17060-07-0	1,2-Dichloroethane-D4	91%		74-127%
2037-26-5	Toluene-D8	96%		80-122%
460-00-4	4-Bromofluorobenzene	89%		78-116%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12653.D	1	05/31/13	AMA	05/18/13	M:OP33206	M:MSW584
Run #2							

Run	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	10	0.63	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.56	ug/l	
98-86-2	Acetophenone	ND	10	0.41	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
1912-24-9	Atrazine	ND	10	10	ug/l	
100-52-7	Benzaldehyde	ND	20	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.25	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
92-52-4	1,1'-Biphenyl	ND	10	10	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
105-60-2	Caprolactam	ND	10	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	2.0	0.21	ug/l	
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.22	ug/l	
86-73-7	Fluorene	ND	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	0.56	5.0	0.20	ug/l	J
91-57-6	2-Methylnaphthalene	ND	2.0	0.39	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
91-20-3	Naphthalene	ND	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.21	ug/l	
129-00-0	Pyrene	ND	2.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		15-110%
4165-62-2	Phenol-d5	32%		15-110%

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93%		15-110%
4165-60-0	Nitrobenzene-d5	96%		30-130%
321-60-8	2-Fluorobiphenyl	96%		30-130%
1718-51-0	Terphenyl-d14	99%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91487.D	1	05/17/13	DS	05/16/13	OP66081	G1G3006
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-145%
877-09-8	Tetrachloro-m-xylene	83%		26-145%
2051-24-3	Decachlorobiphenyl	42%		10-141%
2051-24-3	Decachlorobiphenyl	44%		10-141%

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF120414.D	1	05/21/13	JR	05/16/13	OP66080	GEF4761
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		25-143%
877-09-8	Tetrachloro-m-xylene	85%		25-143%
2051-24-3	Decachlorobiphenyl	40%		10-134%
2051-24-3	Decachlorobiphenyl	40%		10-134%

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RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

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Report of Analysis

Page 1 of 1

Client Sample ID:	MW-3	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-3	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Aluminum	348	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	38100	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	731	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	5590	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	36.5	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	71300	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

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Client Sample ID: MW-3	Date Sampled: 05/14/13
Lab Sample ID: JB37099-3F	Date Received: 05/15/13
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	38600	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	5660	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	19.1	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	71900	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	MW-4	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-4	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119638.D	1	05/20/13	DP	n/a	n/a	V3A5158
Run #2	3A119610.D	10	05/19/13	DP	n/a	n/a	V3A5157
Run #3	3A119682.D	20	05/21/13	DP	n/a	n/a	V3A5160

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	235 ^a	100	33	ug/l	
71-43-2	Benzene	21.9	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.74	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	1630 ^b	20	5.2	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	4.5	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	1790 ^a	10	1.1	ug/l	
107-06-2	1,2-Dichloroethane	3.0	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	42.5	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	97.1	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	14.5	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	MW-4	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-4	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	47.1	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	6.3	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.44	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	69.1	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	13.2	1.0	0.28	ug/l	
108-88-3	Toluene	347 ^a	10	2.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	962 ^a	10	2.4	ug/l	
79-00-5	1,1,2-Trichloroethane	10.3	1.0	0.29	ug/l	
79-01-6	Trichloroethene	198	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	1.2	5.0	0.27	ug/l	J
75-01-4	Vinyl chloride	45.5	1.0	0.21	ug/l	
	m,p-Xylene	72.6	1.0	0.42	ug/l	
95-47-6	o-Xylene	38.8	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	111	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	104%	101%	102%	81-121%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	96%	74-127%
2037-26-5	Toluene-D8	98%	97%	97%	80-122%
460-00-4	4-Bromofluorobenzene	88%	91%	91%	78-116%

(a) Result is from Run# 2

(b) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-4	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-4	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12654.D	1	05/31/13	AMA	05/18/13	M:OP33206	M:MSW584
Run #2							

	Initial Volume	Final Volume
Run #1	420 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	12	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	24	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	24	0.78	ug/l	
105-67-9	2,4-Dimethylphenol	ND	24	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	48	6.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	24	2.9	ug/l	
95-48-7	2-Methylphenol	ND	24	3.1	ug/l	
	3&4-Methylphenol	200	24	4.8	ug/l	
88-75-5	2-Nitrophenol	ND	24	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	48	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	24	3.0	ug/l	
108-95-2	Phenol	107	12	1.2	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	24	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	24	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	24	0.76	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.54	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.3	ug/l	
98-86-2	Acetophenone	ND	24	0.97	ug/l	
120-12-7	Anthracene	ND	4.8	0.49	ug/l	
1912-24-9	Atrazine	ND	24	24	ug/l	
100-52-7	Benzaldehyde	ND	48	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
92-52-4	1,1'-Biphenyl	ND	24	24	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	12	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	5.0	12	2.0	ug/l	J
105-60-2	Caprolactam	ND	24	24	ug/l	
91-58-7	2-Chloronaphthalene	ND	12	2.2	ug/l	
106-47-8	4-Chloroaniline	ND	24	0.60	ug/l	

ND = Not detected MDL - Method Detection Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-4	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-4	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	12	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	15.0	12	0.55	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	12	0.32	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	12	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	24	1.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	24	1.5	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	12	1.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.37	ug/l	
84-74-2	Di-n-butyl phthalate	260	12	0.92	ug/l	
117-84-0	Di-n-octyl phthalate	ND	12	1.0	ug/l	
84-66-2	Diethyl phthalate	195	12	1.2	ug/l	
131-11-3	Dimethyl phthalate	ND	12	1.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	16.5	4.8	1.2	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.53	ug/l	
86-73-7	Fluorene	ND	4.8	0.56	ug/l	
118-74-1	Hexachlorobenzene	ND	12	0.71	ug/l	
87-68-3	Hexachlorobutadiene	ND	12	0.69	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	24	6.0	ug/l	
67-72-1	Hexachloroethane	ND	12	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.65	ug/l	
78-59-1	Isophorone	ND	12	0.48	ug/l	
91-57-6	2-Methylnaphthalene	2.5	4.8	0.93	ug/l	J
88-74-4	2-Nitroaniline	ND	24	0.66	ug/l	
99-09-2	3-Nitroaniline	ND	24	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	24	10	ug/l	
91-20-3	Naphthalene	ND	4.8	0.40	ug/l	
98-95-3	Nitrobenzene	ND	12	0.59	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	12	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	12	1.3	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.50	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	24	0.78	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		15-110%
4165-62-2	Phenol-d5	86%		15-110%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	MW-4	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-4	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	96%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119681.D	1	05/21/13	DP	n/a	n/a	V3A5160
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: MW-X	Date Sampled: 05/14/13
Lab Sample ID: JB37099-5	Date Received: 05/15/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.5	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		81-121%
17060-07-0	1,2-Dichloroethane-D4	95%		74-127%
2037-26-5	Toluene-D8	96%		80-122%
460-00-4	4-Bromofluorobenzene	90%		78-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12655.D	1	05/31/13	AMA	05/18/13	M:OP33206	M:MSW584
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	11	0.67	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
83-32-9	Acenaphthene	ND	2.1	0.24	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.59	ug/l	
98-86-2	Acetophenone	ND	11	0.43	ug/l	
120-12-7	Anthracene	ND	2.1	0.22	ug/l	
1912-24-9	Atrazine	ND	11	11	ug/l	
100-52-7	Benzaldehyde	ND	21	21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.27	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.28	ug/l	
92-52-4	1,1'-Biphenyl	ND	11	11	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
105-60-2	Caprolactam	ND	11	11	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

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Report of Analysis

Page 2 of 3

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	2.1	0.22	ug/l	
218-01-9	Chrysene	ND	2.1	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.3	0.53	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.22	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.65	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.59	2.1	0.51	ug/l	J
206-44-0	Fluoranthene	ND	2.1	0.23	ug/l	
86-73-7	Fluorene	ND	2.1	0.25	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	0.29	ug/l	
78-59-1	Isophorone	0.54	5.3	0.21	ug/l	J
91-57-6	2-Methylnaphthalene	ND	2.1	0.41	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
91-20-3	Naphthalene	ND	2.1	0.18	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.22	ug/l	
129-00-0	Pyrene	ND	2.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	11	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	30%		15-110%

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	93%		30-130%
321-60-8	2-Fluorobiphenyl	92%		30-130%
1718-51-0	Terphenyl-d14	91%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91488.D	1	05/17/13	DS	05/16/13	OP66081	G1G3006
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		26-145%
877-09-8	Tetrachloro-m-xylene	74%		26-145%
2051-24-3	Decachlorobiphenyl	42%		10-141%
2051-24-3	Decachlorobiphenyl	43%		10-141%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-X	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-5	Date Received:	05/15/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF120415.D	1	05/21/13	JR	05/16/13	OP66080	GEF4761
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		25-143%
877-09-8	Tetrachloro-m-xylene	78%		25-143%
2051-24-3	Decachlorobiphenyl	39%		10-134%
2051-24-3	Decachlorobiphenyl	40%		10-134%

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-X	Date Sampled: 05/14/13
Lab Sample ID: JB37099-5	Date Received: 05/15/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6850	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	39400	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	33.4	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	10.9	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	14300	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	5.9	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	6560	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	333	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	15.4	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	72400	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	26.3	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

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Client Sample ID: MW-X	Date Sampled: 05/14/13
Lab Sample ID: JB37099-5F	Date Received: 05/15/13
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	39400	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	5810	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	22.8	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	73500	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119612.D	1	05/19/13	DP	n/a	n/a	V3A5157
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		81-121%
17060-07-0	1,2-Dichloroethane-D4	94%		74-127%
2037-26-5	Toluene-D8	96%		80-122%
460-00-4	4-Bromofluorobenzene	88%		78-116%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	FIELD BLANK 5/14/13	
Lab Sample ID:	JB37099-6	Date Sampled: 05/14/13
Matrix:	AQ - Field Blank Water	Date Received: 05/15/13
Method:	SW846 8270C SW846 3510C	Percent Solids: n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W12656.D	1	05/31/13	AMA	05/18/13	M:OP33206	M:MSW584
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	11	0.67	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
83-32-9	Acenaphthene	ND	2.1	0.24	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.59	ug/l	
98-86-2	Acetophenone	ND	11	0.43	ug/l	
120-12-7	Anthracene	ND	2.1	0.22	ug/l	
1912-24-9	Atrazine	ND	11	11	ug/l	
100-52-7	Benzaldehyde	ND	21	21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.27	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	11	11	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
105-60-2	Caprolactam	ND	11	11	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	2.1	0.23	ug/l	
218-01-9	Chrysene	ND	2.1	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.3	0.53	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.23	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
206-44-0	Fluoranthene	ND	2.1	0.24	ug/l	
86-73-7	Fluorene	ND	2.1	0.25	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.42	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
91-20-3	Naphthalene	ND	2.1	0.18	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.22	ug/l	
129-00-0	Pyrene	ND	2.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	11	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	32%		15-110%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	89%		30-130%
321-60-8	2-Fluorobiphenyl	87%		30-130%
1718-51-0	Terphenyl-d14	98%		30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

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Report of Analysis

Page 1 of 1

Client Sample ID:	FIELD BLANK 5/14/13		
Lab Sample ID:	JB37099-6	Date Sampled:	05/14/13
Matrix:	AQ - Field Blank Water	Date Received:	05/15/13
Method:	SW846 8081B SW846 3510C	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G91489.D	1	05/17/13	DS	05/16/13	OP66081	G1G3006
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		26-145%
877-09-8	Tetrachloro-m-xylene	70%		26-145%
2051-24-3	Decachlorobiphenyl	55%		10-141%
2051-24-3	Decachlorobiphenyl	56%		10-141%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF120416.D	1	05/21/13	JR	05/16/13	OP66080	GEF4761
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		25-143%
877-09-8	Tetrachloro-m-xylene	69%		25-143%
2051-24-3	Decachlorobiphenyl	53%		10-134%
2051-24-3	Decachlorobiphenyl	55%		10-134%

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Report of Analysis

Page 1 of 1

Client Sample ID:	FIELD BLANK 5/14/13	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-6	Date Received:	05/15/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	< 5000	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	< 5000	5000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	< 15	15	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	< 10000	10000	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: FIELD BLANK 5/14/13**Lab Sample ID:** JB37099-6F**Date Sampled:** 05/14/13**Matrix:** AQ - Field Blank Filtered**Date Received:** 05/15/13**Percent Solids:** n/a**Project:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Barium	< 200	200	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Calcium	< 5000	5000	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Copper	< 10	10	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Iron	< 100	100	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Magnesium	< 5000	5000	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Manganese	< 15	15	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	05/28/13	05/28/13 DP	SW846 7470A ²	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Selenium	< 10	10	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Silver	< 10	10	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Sodium	< 10000	10000	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/20/13	05/25/13 ND	SW846 6010C ¹	SW846 3010A ³

(1) Instrument QC Batch: MA31287

(2) Instrument QC Batch: MA31303

(3) Prep QC Batch: MP72029

(4) Prep QC Batch: MP72211

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-7	Date Received:	05/15/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A119613.D	1	05/19/13	DP	n/a	n/a	V3A5157
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	05/14/13
Lab Sample ID:	JB37099-7	Date Received:	05/15/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		81-121%
17060-07-0	1,2-Dichloroethane-D4	93%		74-127%
2037-26-5	Toluene-D8	95%		80-122%
460-00-4	4-Bromofluorobenzene	89%		78-116%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (Accutest Labs of New England, Inc.)

Client / Reporting Information Company Name: <u>Ca Rich Consultants, Inc</u> Street Address: <u>17 Dupont St</u> City: <u>Mainview NY</u> State: <u>NY</u> Zip: <u>11803</u> Project Contact: <u>Jessica Prosera</u> E-mail: _____ Phone #: <u>(516) 576-8844</u> Fax #: _____ Sampler(s) Name(s): <u>Jessica Prosera / Jason Goff</u>		Project Information Project Name: <u>Former Zee Chemical</u> Street: <u>1801 Falmouth Rd</u> City: <u>New Hyde Park, NY</u> State: _____ Zip: _____ Billing Information (if different from Report to) Company Name: _____ Street Address: <u>Same</u> City: _____ State: _____ Zip: _____ Client Purchase Order #: _____ Attention: _____ Project Manager: _____		Requested Analysis (see TEST CODE sheet) Accutest Tracking #: _____ Bottle Order Control #: _____ Accutest Quote #: _____ Accutest Job #: <u>JB37099</u> Analysis Requested: <u>TCL VOCs 8260C</u> <u>TCL SVOCs 8270</u> <u>Residues 8081</u> <u>PCB's 8082</u> <u>TAL Metals total + Dissolved</u> <u>epa SW 600 + SW 7713</u>		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment CI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank LAB USE ONLY										
Account Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	PCB	MeOH	HNO3	H2SO4	NONE	D Vials	MEOH	ENDORE	
1	MW-1		5/14/13	10:43	JP	GW	6W	3								
1F	MW-1 MS		5/14/13	10:47	JP	GW	6W	3								
	MW-1 MSD		5/14/13	10:55	JP	GW	6W	3								
2F	MW-2		5/14/13	13:20	JP	GW	6W	3								
3F	MW-3		5/14/13	14:58	JP	GW	6W	3								
4	MW-4		5/14/13	15:57	JP	GW	6W	3								
5F	MW-X		5/14/13	-	JP	GW	6W	3								
6F	Field Blank 5/14/13		5/14/13	17:00	JP	ER	6W	3								
7	Trip Blank		5/14/13	-	JP	TB	6W	2								
Turnaround Time (Business days) ☒ Std. 15 Business Days ☐ Std. 10 Business Days (by Contract only) ☐ 10 Day RUSH ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY Emergency & Rush TIA data available Vial Labeling																
Data Deliverable Information ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data																
Comments / Special Instructions _____ _____ _____																
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished By Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:
1	5/15/13 10:20	Chris Lat	2	5/15/13	Chris Lat	3			4			5			6	
Relinquished By Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:
3			4			5			6			7			8	
Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:
5			6			7			8			9			10	
Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable ☒ On Ice ☒ Cooler Temp. <u>4.0°C</u>																

JB37099: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB37099 **Client:** CA RICH **Project:** FORMER ZOE CHEMICAL
Date / Time Received: 5/15/2013 1310 **Delivery Method:** Accutest Courier **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (4/4); #2: (4/4); 0

Cooler Security

	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	☒		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers	2		

Quality Control Preservation

	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	☒	☐	☐
2. Trip Blank listed on COC:	☒	☐	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Comments 1. Sample -4 "MW-4" has limited 8270 volume. (approx 300ml)
 2. Samples -2,-3,-5,-6 have 3 EXT bottles; sample -1 has 9

Accutest Job Number: JB37099

CSR: Kevin Dovedytis

Response Date: 5/16/2013

Response: OK to proceed with analysis.

5.1

5

JB37099: Chain of Custody
Page 3 of 3

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # JB37099	
Requested Analysis (see TEST CODE sheet)		Matrix Codes	
AB8270TCL11 QC SAMPLE		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TS - Trip Blank	
		LAB USE ONLY	
Turnaround Time (Business days)		Data Deliverable Information	
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other Emergency & Rush T/A not available VIA Lablink		Approved By (Accutest PM): / Date: _____ ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data	
Comments / Special Instructions		Sample -4 contains ~300ml.	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by: <i>[Signature]</i>	Date Time: <i>5-16-13 1700</i>	Received By: <i>FEDEX</i>	Date Time: <i>5-17-13</i>
Relinquished by: <i>[Signature]</i>	Date Time: _____	Received By: <i>FL</i>	Date Time: _____
Relinquished by: _____	Date Time: _____	Received By: _____	Date Time: _____
Relinquished by: _____	Date Time: _____	Received By: _____	Date Time: _____
Custody Seal #		☐ Intact ☐ Not Intact	
Preserved where applicable		On Ice ☒ Cooler Temp. <i>0.2°C</i>	

JB37099: Chain of Custody

Page 1 of 2

Accutest Labs of New England, Inc.

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB37099 **Client:** ACNJ **Immediate Client Services Action Required:** No
Date / Time Received: 5/17/2013 **Delivery Method:** **Client Service Action Required at Login:** No
Project: FORMER ZOE CHEM **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y** **or** **N** **N/A**
1. Trip Blank present / cooler: ☐ ☐ ☒
2. Trip Blank listed on COC: ☐ ☐ ☒
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation **Y** **or** **N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y** **or** **N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y** **or** **N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Tuesday, October 15, 2013

Jessica Proscia
CA Rich Consultants Inc.
17 Dupont Street
Plainview, NY 11803

TEL: (516) 576-8844

FAX (516) 576-0093

RE: Former Zoe Chemical, 1801 Falmouth Ave.,

Order No.: 1310090

Dear Jessica Proscia:

American Analytical Laboratories, LLC. received 1 sample(s) on 10/10/2013 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 7 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,



Lori Beyer
Lab Director

American Analytical Laboratories, LLC.**Date:** 15-Oct-13

CLIENT: CA Rich Consultants Inc.
Project: Former Zoe Chemical, 1801 Falmouth Ave., NH
Lab Order: 1310090

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1310090-01A	MW-4	10/10/2013 10:10:00 AM	10/10/2013

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

[illegible]

COMMENTS / INSTRUCTIONS

Samples must be on ICE
($<6^{\circ}\text{C}$)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS		TURNAROUND REQUIRED		E-MAIL ADDRESS FOR RESULTS:	
TYPE	G=GRAB; C=COMPOSITE	STANDARD ☐	STAT ☐	BY / /	JProscia@Carichinc.com
		(7-10 business days)			
RELINQUISHED BY (SIGNATURE)	DATE 10/10/13 TIME 10:45	PRINTED NAME Jessa Proscia	RECEIVED BY LAB (SIGNATURE)	DATE 10-10-13 TIME 10:45	PRINTED NAME C Dunn
RELINQUISHED BY (SIGNATURE)	DATE 10-10-13 TIME 11:30	PRINTED NAME C Dunn	RECEIVED BY LAB (SIGNATURE)	DATE 10/10/13 TIME 1:30	PRINTED NAME Catherine

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, NY 11735

TEL: 6314546100

FAX: 6314548027

Subcontractor:

EcoTest Labs, a division of H2M Labs, Inc.
575 Broadhollow Road
Melville, NY 117047

TEL: (631) 422-5777
FAX: (631) 422-5770
Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

8.80C

10-Oct-13

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
1310090-01A	Liquid	0/10/2013 10:10:00 AM	10ML PU & BACT Ct	Client ID MW-4

General Comments: Fecal Coliform & Flouride.

Relinquished by: *[Signature]*
Relinquished by:

Date/Time
10-10-13

Received by: *[Signature]*
Received by:

Date/Time
10/10/13 135

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **CA RICH**

Date and Time Receive **10/10/2013 12:36:23 PM**

Work Order Number **1310090**

RcptNo: 1

Received by **CD**

COC_ID:

CoolerID:

Checklist completed by

Signature

[Signature]

10/10/13
Date

Reviewed by

Initials

[Signature]

Date

10/10/13

Matrix:

Carrier name AAL

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Presen ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Presen ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐

Adjusted? _____

Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments:

Corrective Action _____

SUBCONTRACTED RESULTS

ECOTEST LABORATORIES

A division of H2M Labs, Inc.

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

American Analytical Laboratories

56 Toledo Street
Farmingdale, NY 11735

Attn To : Lori Beyer

Collected : 10/10/2013 10:10:00 AM

Received : 10/10/2013 1:15:00 PM

Collected By CLIENT

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type : Liquid

Origin:

Lab No. : 1310677-001
Client Sample ID: 1310090-01A

Analytical Method: E300.0 :					Analyst: bka
Parameter(s)	Results	Qualifier	D.F.	Units	Container:
Fluoride	0.37		1	mg/L	Container-01 of 01
Analytical Method: M9221 E :					Analyst: MAM
Parameter(s)	Results	Qualifier	D.F.	Units	Container:
Fecal Coliform	< 2		1	MPN/100mL	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported : 10/15/2013



Technical Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 2



H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name **AMAN-ECO**

Date and Time Received: **10/10/2013 1:15:00 PM**

Work Order Number: **1310677**

RcptNo: **1**

Received by **Linda Siciliano**

Completed by: 

Reviewed by: 

Completed Date: **10/10/2013 3:50:37 PM**

Reviewed Date: **10/13/2013 9:29:35 AM**

Carrier name: Client

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Are matrices correctly identified on Chain of custody?

Yes ☒

No ☐

Is it clear what analyses were requested?

Yes ☒

No ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Samples in proper container/bottle?

Yes ☒

No ☐

Were correct preservatives used and noted?

Yes ☒

No ☐

NA ☐

Preservative added to bottles:

Sample Condition?

Intact ☒

Broken ☐

Leaking ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

Were container labels complete (ID, Pres, Date)?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

All samples received at a temp. of > 0° C to 6.0° C?

Yes ☐

No ☒

NA ☐

Response when temperature is outside of range:

Sample Temp. taken and recorded upon receipt?

Yes ☒

No ☐

To 8.8°

Water - Were bubbles absent in VOC vials?

Yes ☐

No ☐

No Vials ☒

Water - Was there Chlorine Present?

Yes ☐

No ☐

NA ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

No Water ☐

Are Samples considered acceptable?

Yes ☒

No ☐

Custody Seals present?

Yes ☐

No ☒

Airbill or Sticker?

Air Bil ☐

Sticker ☐

Not Present ☒

Airbill No:

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☒ No

Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax:

☐ Email:

☐ In Person:

Client Instructions:

Date Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



11/05/13

Technical Report for

C. A. Rich Consultants

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Accutest Job Number: JB48053

Sampling Date: 09/19/13

Report to:

C. A. Rich Consultants

jproscia@carichinc.com

ATTN: Jessica Proscia

Total number of pages in report: **51**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

C. A. Rich Consultants

Job No: JB48053

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB48053-1	09/19/13	15:30	JP	09/20/13	AIR	Indoor Air Comp.	IA-1
JB48053-2	09/19/13	15:30	JP	09/20/13	AIR	Ambient Air Comp.	AA-1
JB48053-3	09/19/13	10:45	JP	09/20/13	AIR	Soil Vapor Comp.	SV-1
JB48053-4	09/19/13	10:46	JP	09/20/13	AIR	Soil Vapor Comp.	SV-2
JB48053-5	09/19/13	10:20	JP	09/20/13	AIR	Soil Vapor Comp.	SV-3
JB48053-6	09/19/13	10:50	JP	09/20/13	AIR	Soil Vapor Comp.	SV-4
JB48053-7	09/19/13	00:00	JP	09/20/13	AIR	Soil Vapor Comp.	SV-X
JB48053-8	09/19/13	10:53	JP	09/20/13	AIR	Soil Vapor Comp.	SSV-1
JB48053-9	09/19/13	11:05	JP	09/20/13	AIR	Soil Vapor Comp.	SSV-2
JB48053-10	09/19/13	11:00	JP	09/20/13	AIR	Soil Vapor Comp.	SSV-3
JB48053-11	09/19/13	10:57	JP	09/20/13	AIR	Soil Vapor Comp.	SSV-4

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB48053

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 10/2/2013 8:56:24 AM

On 09/20/2013, 11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB48053 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR

Batch ID: V3W1390

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48053-1DUP were used as the QC samples indicated.
- Sample(s) JB48053-1 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- RPD(s) for Duplicate for Tetrachloroethylene are outside control limits for sample JB48053-1DUP. High RPD due to low concentration of hit

Matrix: AIR

Batch ID: V3W1391

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB48194-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB48053-7 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.
- JB48053-5 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: AIR

Batch ID: V3W1392

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48459-2DUP were used as the QC samples indicated.

Matrix: AIR

Batch ID: VW1754

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48053-10DUP were used as the QC samples indicated.
- VW1754-BS for 1,2,4-Trichlorobenzene: High percent recoveries and no associated positive found in the QC batch.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB48053-1	IA-1					
Acetone		33.6	0.20	0.034	ppbv	TO-15
Benzene		0.32	0.20	0.021	ppbv	TO-15
Chloromethane		0.56	0.20	0.034	ppbv	TO-15
Cyclohexane		0.34	0.20	0.058	ppbv	TO-15
Dichlorodifluoromethane		0.45	0.20	0.015	ppbv	TO-15
Ethanol		144 E	0.50	0.19	ppbv	TO-15
Ethylbenzene		0.44	0.20	0.020	ppbv	TO-15
Ethyl Acetate		1.5	0.20	0.057	ppbv	TO-15
4-Ethyltoluene		0.17 J	0.20	0.015	ppbv	TO-15
Heptane		0.31	0.20	0.020	ppbv	TO-15
Hexane		1.9	0.20	0.016	ppbv	TO-15
Isopropyl Alcohol		6.7	0.20	0.039	ppbv	TO-15
Methylene chloride		0.42	0.20	0.047	ppbv	TO-15
Methyl ethyl ketone		1.6	0.20	0.058	ppbv	TO-15
Styrene		0.91	0.20	0.020	ppbv	TO-15
1,1,1-Trichloroethane		0.23	0.20	0.016	ppbv	TO-15
1,2,4-Trimethylbenzene		0.55	0.20	0.017	ppbv	TO-15
1,3,5-Trimethylbenzene		0.17 J	0.20	0.015	ppbv	TO-15
2,2,4-Trimethylpentane		0.36	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.56	0.040	0.029	ppbv	TO-15
Tetrahydrofuran		0.31	0.20	0.045	ppbv	TO-15
Toluene		4.5	0.20	0.020	ppbv	TO-15
Trichloroethylene		0.056	0.040	0.019	ppbv	TO-15
Trichlorofluoromethane		0.26	0.20	0.014	ppbv	TO-15
m,p-Xylene		1.7	0.20	0.032	ppbv	TO-15
o-Xylene		0.60	0.20	0.019	ppbv	TO-15
Xylenes (total)		2.3	0.20	0.019	ppbv	TO-15
Acetone		79.8	0.48	0.081	ug/m3	TO-15
Benzene		1.0	0.64	0.067	ug/m3	TO-15
Chloromethane		1.2	0.41	0.070	ug/m3	TO-15
Cyclohexane		1.2	0.69	0.20	ug/m3	TO-15
Dichlorodifluoromethane		2.2	0.99	0.074	ug/m3	TO-15
Ethanol		271 E	0.94	0.36	ug/m3	TO-15
Ethylbenzene		1.9	0.87	0.087	ug/m3	TO-15
Ethyl Acetate		5.4	0.72	0.21	ug/m3	TO-15
4-Ethyltoluene		0.84 J	0.98	0.074	ug/m3	TO-15
Heptane		1.3	0.82	0.082	ug/m3	TO-15
Hexane		6.7	0.70	0.056	ug/m3	TO-15
Isopropyl Alcohol		16	0.49	0.096	ug/m3	TO-15
Methylene chloride		1.5	0.69	0.16	ug/m3	TO-15
Methyl ethyl ketone		4.7	0.59	0.17	ug/m3	TO-15
Styrene		3.9	0.85	0.085	ug/m3	TO-15
1,1,1-Trichloroethane		1.3	1.1	0.087	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene		2.7	0.98	0.084	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.84 J	0.98	0.074	ug/m3	TO-15
2,2,4-Trimethylpentane		1.7	0.93	0.098	ug/m3	TO-15
Tetrachloroethylene		3.8	0.27	0.20	ug/m3	TO-15
Tetrahydrofuran		0.91	0.59	0.13	ug/m3	TO-15
Toluene		17	0.75	0.075	ug/m3	TO-15
Trichloroethylene		0.30	0.21	0.10	ug/m3	TO-15
Trichlorofluoromethane		1.5	1.1	0.079	ug/m3	TO-15
m,p-Xylene		7.4	0.87	0.14	ug/m3	TO-15
o-Xylene		2.6	0.87	0.083	ug/m3	TO-15
Xylenes (total)		10	0.87	0.083	ug/m3	TO-15

JB48053-2 AA-1

Acetone	5.5	0.20	0.034	ppbv	TO-15
Benzene	0.25	0.20	0.021	ppbv	TO-15
Chloromethane	0.43	0.20	0.034	ppbv	TO-15
Dichlorodifluoromethane	0.49	0.20	0.015	ppbv	TO-15
Ethanol	5.8	0.50	0.19	ppbv	TO-15
Ethylbenzene	0.13 J	0.20	0.020	ppbv	TO-15
Ethyl Acetate	0.57	0.20	0.057	ppbv	TO-15
Heptane	0.18 J	0.20	0.020	ppbv	TO-15
Hexane	0.34	0.20	0.016	ppbv	TO-15
Isopropyl Alcohol	0.84	0.20	0.039	ppbv	TO-15
Methylene chloride	0.46	0.20	0.047	ppbv	TO-15
Methyl ethyl ketone	0.50	0.20	0.058	ppbv	TO-15
1,2,4-Trimethylbenzene	0.17 J	0.20	0.017	ppbv	TO-15
2,2,4-Trimethylpentane	0.27	0.20	0.021	ppbv	TO-15
Tetrachloroethylene	0.14	0.040	0.029	ppbv	TO-15
Toluene	0.91	0.20	0.020	ppbv	TO-15
Trichlorofluoromethane	0.25	0.20	0.014	ppbv	TO-15
m,p-Xylene	0.39	0.20	0.032	ppbv	TO-15
o-Xylene	0.15 J	0.20	0.019	ppbv	TO-15
Xylenes (total)	0.54	0.20	0.019	ppbv	TO-15
Acetone	13	0.48	0.081	ug/m3	TO-15
Benzene	0.80	0.64	0.067	ug/m3	TO-15
Chloromethane	0.89	0.41	0.070	ug/m3	TO-15
Dichlorodifluoromethane	2.4	0.99	0.074	ug/m3	TO-15
Ethanol	11	0.94	0.36	ug/m3	TO-15
Ethylbenzene	0.56 J	0.87	0.087	ug/m3	TO-15
Ethyl Acetate	2.1	0.72	0.21	ug/m3	TO-15
Heptane	0.74 J	0.82	0.082	ug/m3	TO-15
Hexane	1.2	0.70	0.056	ug/m3	TO-15
Isopropyl Alcohol	2.1	0.49	0.096	ug/m3	TO-15
Methylene chloride	1.6	0.69	0.16	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl ethyl ketone		1.5	0.59	0.17	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.84 J	0.98	0.084	ug/m3	TO-15
2,2,4-Trimethylpentane		1.3	0.93	0.098	ug/m3	TO-15
Tetrachloroethylene		0.95	0.27	0.20	ug/m3	TO-15
Toluene		3.4	0.75	0.075	ug/m3	TO-15
Trichlorofluoromethane		1.4	1.1	0.079	ug/m3	TO-15
m,p-Xylene		1.7	0.87	0.14	ug/m3	TO-15
o-Xylene		0.65 J	0.87	0.083	ug/m3	TO-15
Xylenes (total)		2.3	0.87	0.083	ug/m3	TO-15

JB48053-3 SV-1

Acetone	10.4	0.80	0.14	ppbv	TO-15
Benzene	2.5	0.80	0.084	ppbv	TO-15
Carbon disulfide	6.1	0.80	0.069	ppbv	TO-15
Chloroform	4.1	0.80	0.074	ppbv	TO-15
1,1-Dichloroethane	17.0	0.80	0.066	ppbv	TO-15
Dichlorodifluoromethane	0.80	0.80	0.062	ppbv	TO-15
cis-1,2-Dichloroethylene	2.7	0.80	0.11	ppbv	TO-15
Ethylbenzene	0.77 J	0.80	0.081	ppbv	TO-15
Heptane	0.53 J	0.80	0.078	ppbv	TO-15
Hexane	0.52 J	0.80	0.064	ppbv	TO-15
Methylene chloride	1.2	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone	6.2	0.80	0.23	ppbv	TO-15
1,1,1-Trichloroethane	113	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene	1.5	0.80	0.066	ppbv	TO-15
Tetrachloroethylene	954	1.9	1.4	ppbv	TO-15
Tetrahydrofuran	2.3	0.80	0.18	ppbv	TO-15
Toluene	2.2	0.80	0.081	ppbv	TO-15
Trichloroethylene	17.0	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane	0.73 J	0.80	0.055	ppbv	TO-15
m,p-Xylene	2.5	0.80	0.13	ppbv	TO-15
o-Xylene	0.90	0.80	0.077	ppbv	TO-15
Xylenes (total)	3.4	0.80	0.077	ppbv	TO-15
Acetone	24.7	1.9	0.33	ug/m3	TO-15
Benzene	8.0	2.6	0.27	ug/m3	TO-15
Carbon disulfide	19	2.5	0.21	ug/m3	TO-15
Chloroform	20	3.9	0.36	ug/m3	TO-15
1,1-Dichloroethane	68.8	3.2	0.27	ug/m3	TO-15
Dichlorodifluoromethane	4.0	4.0	0.31	ug/m3	TO-15
cis-1,2-Dichloroethylene	11	3.2	0.44	ug/m3	TO-15
Ethylbenzene	3.3 J	3.5	0.35	ug/m3	TO-15
Heptane	2.2 J	3.3	0.32	ug/m3	TO-15
Hexane	1.8 J	2.8	0.23	ug/m3	TO-15
Methylene chloride	4.2	2.8	0.66	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl ethyl ketone		18	2.4	0.68	ug/m3	TO-15
1,1,1-Trichloroethane		617	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene		7.4	3.9	0.32	ug/m3	TO-15
Tetrachloroethylene		6470	13	9.5	ug/m3	TO-15
Tetrahydrofuran		6.8	2.4	0.53	ug/m3	TO-15
Toluene		8.3	3.0	0.31	ug/m3	TO-15
Trichloroethylene		91.4	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane		4.1 J	4.5	0.31	ug/m3	TO-15
m,p-Xylene		11	3.5	0.56	ug/m3	TO-15
o-Xylene		3.9	3.5	0.33	ug/m3	TO-15
Xylenes (total)		15	3.5	0.33	ug/m3	TO-15

JB48053-4 SV-2

Acetone	130	0.80	0.14	ppbv	TO-15
Benzene	2.6	0.80	0.084	ppbv	TO-15
Bromodichloromethane	4.9	0.80	0.099	ppbv	TO-15
Carbon disulfide	4.5	0.80	0.069	ppbv	TO-15
Chloroethane	3.5	0.80	0.082	ppbv	TO-15
Chloroform	59.7	0.80	0.074	ppbv	TO-15
Carbon tetrachloride	3.0	0.80	0.045	ppbv	TO-15
1,1-Dichloroethane	157	0.80	0.066	ppbv	TO-15
1,1-Dichloroethylene	1.2	0.80	0.084	ppbv	TO-15
Dichlorodifluoromethane	1.1	0.80	0.062	ppbv	TO-15
Dibromochloromethane	0.39 J	0.80	0.12	ppbv	TO-15
trans-1,2-Dichloroethylene	1.7	0.80	0.059	ppbv	TO-15
cis-1,2-Dichloroethylene	0.72 J	0.80	0.11	ppbv	TO-15
Ethanol	4.8	2.0	0.74	ppbv	TO-15
Ethylbenzene	0.75 J	0.80	0.081	ppbv	TO-15
Heptane	1.0	0.80	0.078	ppbv	TO-15
Hexane	1.4	0.80	0.064	ppbv	TO-15
Isopropyl Alcohol	2.4	0.80	0.15	ppbv	TO-15
Methylene chloride	13.9	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone	12.2	0.80	0.23	ppbv	TO-15
Propylene	8.4	2.0	0.13	ppbv	TO-15
1,1,1-Trichloroethane	113	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene	7.8	0.80	0.066	ppbv	TO-15
Tertiary Butyl Alcohol	1.8	0.80	0.18	ppbv	TO-15
Tetrachloroethylene	43.2	0.16	0.12	ppbv	TO-15
Tetrahydrofuran	1.0	0.80	0.18	ppbv	TO-15
Toluene	4.7	0.80	0.081	ppbv	TO-15
Trichloroethylene	11.6	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane	1.5	0.80	0.055	ppbv	TO-15
Vinyl chloride	1.5	0.80	0.068	ppbv	TO-15
m,p-Xylene	2.1	0.80	0.13	ppbv	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
o-Xylene		0.86	0.80	0.077	ppbv	TO-15
Xylenes (total)		3.0	0.80	0.077	ppbv	TO-15
Acetone		309	1.9	0.33	ug/m3	TO-15
Benzene		8.3	2.6	0.27	ug/m3	TO-15
Bromodichloromethane		33	5.4	0.66	ug/m3	TO-15
Carbon disulfide		14	2.5	0.21	ug/m3	TO-15
Chloroethane		9.2	2.1	0.22	ug/m3	TO-15
Chloroform		292	3.9	0.36	ug/m3	TO-15
Carbon tetrachloride		19	5.0	0.28	ug/m3	TO-15
1,1-Dichloroethane		635	3.2	0.27	ug/m3	TO-15
1,1-Dichloroethylene		4.8	3.2	0.33	ug/m3	TO-15
Dichlorodifluoromethane		5.4	4.0	0.31	ug/m3	TO-15
Dibromochloromethane		3.3 J	6.8	1.0	ug/m3	TO-15
trans-1,2-Dichloroethylene		6.7	3.2	0.23	ug/m3	TO-15
cis-1,2-Dichloroethylene		2.9 J	3.2	0.44	ug/m3	TO-15
Ethanol		9.0	3.8	1.4	ug/m3	TO-15
Ethylbenzene		3.3 J	3.5	0.35	ug/m3	TO-15
Heptane		4.1	3.3	0.32	ug/m3	TO-15
Hexane		4.9	2.8	0.23	ug/m3	TO-15
Isopropyl Alcohol		5.9	2.0	0.37	ug/m3	TO-15
Methylene chloride		48.3	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		36.0	2.4	0.68	ug/m3	TO-15
Propylene		14	3.4	0.22	ug/m3	TO-15
1,1,1-Trichloroethane		617	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene		38	3.9	0.32	ug/m3	TO-15
Tertiary Butyl Alcohol		5.5	2.4	0.55	ug/m3	TO-15
Tetrachloroethylene		293	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran		2.9	2.4	0.53	ug/m3	TO-15
Toluene		18	3.0	0.31	ug/m3	TO-15
Trichloroethylene		62.3	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane		8.4	4.5	0.31	ug/m3	TO-15
Vinyl chloride		3.8	2.0	0.17	ug/m3	TO-15
m,p-Xylene		9.1	3.5	0.56	ug/m3	TO-15
o-Xylene		3.7	3.5	0.33	ug/m3	TO-15
Xylenes (total)		13	3.5	0.33	ug/m3	TO-15

JB48053-5

SV-3

Acetone	149	4.0	0.68	ppbv	TO-15
Benzene	53.3	4.0	0.42	ppbv	TO-15
Carbon disulfide	68.8	4.0	0.35	ppbv	TO-15
Chloroethane	1940	21	2.1	ppbv	TO-15
Cyclohexane	266	4.0	1.2	ppbv	TO-15
1,1-Dichloroethane	123	4.0	0.33	ppbv	TO-15
1,2-Dichloroethane	10.8	4.0	0.33	ppbv	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
trans-1,2-Dichloroethylene		103	4.0	0.30	ppbv	TO-15
cis-1,2-Dichloroethylene		31.8	4.0	0.55	ppbv	TO-15
Ethylbenzene		243	4.0	0.40	ppbv	TO-15
Heptane		212	4.0	0.39	ppbv	TO-15
Hexane		134	4.0	0.32	ppbv	TO-15
Methylene chloride		70.4	4.0	0.93	ppbv	TO-15
Methyl ethyl ketone		60.5	4.0	1.2	ppbv	TO-15
Propylene		641	10	0.63	ppbv	TO-15
1,1,1-Trichloroethane		2.0 J	4.0	0.33	ppbv	TO-15
2,2,4-Trimethylpentane		162	4.0	0.42	ppbv	TO-15
Tertiary Butyl Alcohol		6.8	4.0	0.88	ppbv	TO-15
Toluene		103	4.0	0.40	ppbv	TO-15
Trichloroethylene		9.9	0.80	0.39	ppbv	TO-15
Vinyl chloride		421	4.0	0.34	ppbv	TO-15
m,p-Xylene		213	4.0	0.65	ppbv	TO-15
o-Xylene		5.6	4.0	0.39	ppbv	TO-15
Xylenes (total)		219	4.0	0.39	ppbv	TO-15
Acetone		354	9.5	1.6	ug/m3	TO-15
Benzene		170	13	1.3	ug/m3	TO-15
Carbon disulfide		214	12	1.1	ug/m3	TO-15
Chloroethane		5120	55	5.5	ug/m3	TO-15
Cyclohexane		916	14	4.1	ug/m3	TO-15
1,1-Dichloroethane		498	16	1.3	ug/m3	TO-15
1,2-Dichloroethane		43.7	16	1.3	ug/m3	TO-15
trans-1,2-Dichloroethylene		408	16	1.2	ug/m3	TO-15
cis-1,2-Dichloroethylene		126	16	2.2	ug/m3	TO-15
Ethylbenzene		1060	17	1.7	ug/m3	TO-15
Heptane		869	16	1.6	ug/m3	TO-15
Hexane		472	14	1.1	ug/m3	TO-15
Methylene chloride		245	14	3.2	ug/m3	TO-15
Methyl ethyl ketone		178	12	3.5	ug/m3	TO-15
Propylene		1100	17	1.1	ug/m3	TO-15
1,1,1-Trichloroethane		11 J	22	1.8	ug/m3	TO-15
2,2,4-Trimethylpentane		757	19	2.0	ug/m3	TO-15
Tertiary Butyl Alcohol		21	12	2.7	ug/m3	TO-15
Toluene		388	15	1.5	ug/m3	TO-15
Trichloroethylene		53	4.3	2.1	ug/m3	TO-15
Vinyl chloride		1080	10	0.87	ug/m3	TO-15
m,p-Xylene		925	17	2.8	ug/m3	TO-15
o-Xylene		24	17	1.7	ug/m3	TO-15
Xylenes (total)		951	17	1.7	ug/m3	TO-15
JB48053-6 SV-4						
Acetone		10.8	0.80	0.14	ppbv	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzene		3.3	0.80	0.084	ppbv	TO-15
Carbon disulfide		1.2	0.80	0.069	ppbv	TO-15
Chloroethane		1.8	0.80	0.082	ppbv	TO-15
Chloroform		25.0	0.80	0.074	ppbv	TO-15
Cyclohexane		0.71 J	0.80	0.23	ppbv	TO-15
1,1-Dichloroethane		501	10	0.82	ppbv	TO-15
1,1-Dichloroethylene		3.7	0.80	0.084	ppbv	TO-15
Dichlorodifluoromethane		2.9	0.80	0.062	ppbv	TO-15
trans-1,2-Dichloroethylene		21.0	0.80	0.059	ppbv	TO-15
cis-1,2-Dichloroethylene		155	10	1.4	ppbv	TO-15
Ethylbenzene		0.76 J	0.80	0.081	ppbv	TO-15
4-Ethyltoluene		0.39 J	0.80	0.060	ppbv	TO-15
Heptane		0.44 J	0.80	0.078	ppbv	TO-15
Hexane		0.92	0.80	0.064	ppbv	TO-15
Methylene chloride		1.0	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		2.1	0.80	0.23	ppbv	TO-15
Propylene		7.3	2.0	0.13	ppbv	TO-15
1,1,1-Trichloroethane		598	10	0.82	ppbv	TO-15
1,1,2-Trichloroethane		0.39 J	0.80	0.12	ppbv	TO-15
1,2,4-Trimethylbenzene		1.6	0.80	0.066	ppbv	TO-15
1,3,5-Trimethylbenzene		0.40 J	0.80	0.060	ppbv	TO-15
Tertiary Butyl Alcohol		1.9	0.80	0.18	ppbv	TO-15
Tetrachloroethylene		759	2.0	1.4	ppbv	TO-15
Tetrahydrofuran		0.79 J	0.80	0.18	ppbv	TO-15
Toluene		2.1	0.80	0.081	ppbv	TO-15
Trichloroethylene		314	2.0	0.97	ppbv	TO-15
Trichlorofluoromethane		1.3	0.80	0.055	ppbv	TO-15
m,p-Xylene		2.3	0.80	0.13	ppbv	TO-15
o-Xylene		0.84	0.80	0.077	ppbv	TO-15
Xylenes (total)		3.1	0.80	0.077	ppbv	TO-15
Acetone		25.7	1.9	0.33	ug/m3	TO-15
Benzene		11	2.6	0.27	ug/m3	TO-15
Carbon disulfide		3.7	2.5	0.21	ug/m3	TO-15
Chloroethane		4.7	2.1	0.22	ug/m3	TO-15
Chloroform		122	3.9	0.36	ug/m3	TO-15
Cyclohexane		2.4 J	2.8	0.79	ug/m3	TO-15
1,1-Dichloroethane		2030	40	3.3	ug/m3	TO-15
1,1-Dichloroethylene		15	3.2	0.33	ug/m3	TO-15
Dichlorodifluoromethane		14	4.0	0.31	ug/m3	TO-15
trans-1,2-Dichloroethylene		83.3	3.2	0.23	ug/m3	TO-15
cis-1,2-Dichloroethylene		615	40	5.6	ug/m3	TO-15
Ethylbenzene		3.3 J	3.5	0.35	ug/m3	TO-15
4-Ethyltoluene		1.9 J	3.9	0.29	ug/m3	TO-15
Heptane		1.8 J	3.3	0.32	ug/m3	TO-15
Hexane		3.2	2.8	0.23	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methylene chloride		3.5	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		6.2	2.4	0.68	ug/m3	TO-15
Propylene		13	3.4	0.22	ug/m3	TO-15
1,1,1-Trichloroethane		3260	55	4.5	ug/m3	TO-15
1,1,2-Trichloroethane		2.1 J	4.4	0.65	ug/m3	TO-15
1,2,4-Trimethylbenzene		7.9	3.9	0.32	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.0 J	3.9	0.29	ug/m3	TO-15
Tertiary Butyl Alcohol		5.8	2.4	0.55	ug/m3	TO-15
Tetrachloroethylene		5150	14	9.5	ug/m3	TO-15
Tetrahydrofuran		2.3 J	2.4	0.53	ug/m3	TO-15
Toluene		7.9	3.0	0.31	ug/m3	TO-15
Trichloroethylene		1690	11	5.2	ug/m3	TO-15
Trichlorofluoromethane		7.3	4.5	0.31	ug/m3	TO-15
m,p-Xylene		10	3.5	0.56	ug/m3	TO-15
o-Xylene		3.6	3.5	0.33	ug/m3	TO-15
Xylenes (total)		13	3.5	0.33	ug/m3	TO-15

JB48053-7 SV-X

Acetone	148	4.0	0.68	ppbv	TO-15
Benzene	59.4	4.0	0.42	ppbv	TO-15
Carbon disulfide	72.2	4.0	0.35	ppbv	TO-15
Chloroethane	1760	18	1.9	ppbv	TO-15
Cyclohexane	297	4.0	1.2	ppbv	TO-15
1,1-Dichloroethane	135	4.0	0.33	ppbv	TO-15
1,1-Dichloroethylene	20.5	4.0	0.42	ppbv	TO-15
trans-1,2-Dichloroethylene	115	4.0	0.30	ppbv	TO-15
cis-1,2-Dichloroethylene	34.7	4.0	0.55	ppbv	TO-15
Ethylbenzene	242	4.0	0.40	ppbv	TO-15
Heptane	230	4.0	0.39	ppbv	TO-15
Hexane	147	4.0	0.32	ppbv	TO-15
Methylene chloride	72.3	4.0	0.93	ppbv	TO-15
Methyl ethyl ketone	66.3	4.0	1.2	ppbv	TO-15
Propylene	637	10	0.63	ppbv	TO-15
1,1,1-Trichloroethane	2.6 J	4.0	0.33	ppbv	TO-15
1,3,5-Trimethylbenzene	38.2	4.0	0.30	ppbv	TO-15
2,2,4-Trimethylpentane	176	4.0	0.42	ppbv	TO-15
Tetrachloroethylene	0.66 J	0.80	0.58	ppbv	TO-15
Toluene	115	4.0	0.40	ppbv	TO-15
Trichloroethylene	11.9	0.80	0.39	ppbv	TO-15
Vinyl chloride	450	4.0	0.34	ppbv	TO-15
m,p-Xylene	210	4.0	0.65	ppbv	TO-15
o-Xylene	4.9	4.0	0.39	ppbv	TO-15
Xylenes (total)	214	4.0	0.39	ppbv	TO-15
Acetone	352	9.5	1.6	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzene		190	13	1.3	ug/m3	TO-15
Carbon disulfide		225	12	1.1	ug/m3	TO-15
Chloroethane		4640	47	5.0	ug/m3	TO-15
Cyclohexane		1020	14	4.1	ug/m3	TO-15
1,1-Dichloroethane		546	16	1.3	ug/m3	TO-15
1,1-Dichloroethylene		81.3	16	1.7	ug/m3	TO-15
trans-1,2-Dichloroethylene		456	16	1.2	ug/m3	TO-15
cis-1,2-Dichloroethylene		138	16	2.2	ug/m3	TO-15
Ethylbenzene		1050	17	1.7	ug/m3	TO-15
Heptane		943	16	1.6	ug/m3	TO-15
Hexane		518	14	1.1	ug/m3	TO-15
Methylene chloride		251	14	3.2	ug/m3	TO-15
Methyl ethyl ketone		196	12	3.5	ug/m3	TO-15
Propylene		1090	17	1.1	ug/m3	TO-15
1,1,1-Trichloroethane		14 J	22	1.8	ug/m3	TO-15
1,3,5-Trimethylbenzene		188	20	1.5	ug/m3	TO-15
2,2,4-Trimethylpentane		822	19	2.0	ug/m3	TO-15
Tetrachloroethylene		4.5 J	5.4	3.9	ug/m3	TO-15
Toluene		433	15	1.5	ug/m3	TO-15
Trichloroethylene		64.0	4.3	2.1	ug/m3	TO-15
Vinyl chloride		1150	10	0.87	ug/m3	TO-15
m,p-Xylene		912	17	2.8	ug/m3	TO-15
o-Xylene		21	17	1.7	ug/m3	TO-15
Xylenes (total)		930	17	1.7	ug/m3	TO-15

JB48053-8 SSV-1

Acetone	441	19	3.3	ppbv	TO-15
1,1-Dichloroethane	2890	19	1.6	ppbv	TO-15
1,1-Dichloroethylene	68.3	19	2.0	ppbv	TO-15
1,2-Dichloroethane	9.5 J	19	1.6	ppbv	TO-15
1,4-Dioxane	46.0	19	5.8	ppbv	TO-15
Isopropyl Alcohol	133	19	3.7	ppbv	TO-15
1,1,1-Trichloroethane	33300	260	21	ppbv	TO-15
Tetrachloroethylene	51.8	3.8	2.8	ppbv	TO-15
Toluene	12.1 J	19	1.9	ppbv	TO-15
Trichloroethylene	6.4	3.8	1.9	ppbv	TO-15
m,p-Xylene	10.8 J	19	3.1	ppbv	TO-15
Xylenes (total)	10.8 J	19	1.9	ppbv	TO-15
Acetone	1050	45	7.8	ug/m3	TO-15
1,1-Dichloroethane	11700	77	6.5	ug/m3	TO-15
1,1-Dichloroethylene	271	75	7.9	ug/m3	TO-15
1,2-Dichloroethane	38 J	77	6.5	ug/m3	TO-15
1,4-Dioxane	166	68	21	ug/m3	TO-15
Isopropyl Alcohol	327	47	9.1	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1,1-Trichloroethane		182000	1400	110	ug/m3	TO-15
Tetrachloroethylene		351	26	19	ug/m3	TO-15
Toluene		45.6 J	72	7.2	ug/m3	TO-15
Trichloroethylene		34	20	10	ug/m3	TO-15
m,p-Xylene		46.9 J	83	13	ug/m3	TO-15
Xylenes (total)		46.9 J	83	8.3	ug/m3	TO-15

JB48053-9 SSV-2

Acetone	21.0	4.0	0.68	ppbv	TO-15
Benzene	2.3 J	4.0	0.42	ppbv	TO-15
Chloroethane	5.4	4.0	0.41	ppbv	TO-15
Chloroform	26.9	4.0	0.37	ppbv	TO-15
1,1-Dichloroethane	1450	46	3.8	ppbv	TO-15
1,1-Dichloroethylene	53.0	4.0	0.42	ppbv	TO-15
Dichlorodifluoromethane	10.0	4.0	0.31	ppbv	TO-15
trans-1,2-Dichloroethylene	26.7	4.0	0.30	ppbv	TO-15
cis-1,2-Dichloroethylene	138	4.0	0.55	ppbv	TO-15
Ethanol	18.5	10	3.7	ppbv	TO-15
Ethylbenzene	2.3 J	4.0	0.40	ppbv	TO-15
Hexane	2.8 J	4.0	0.32	ppbv	TO-15
Methylene chloride	5.7	4.0	0.93	ppbv	TO-15
1,1,1-Trichloroethane	3440	46	3.8	ppbv	TO-15
1,2,4-Trimethylbenzene	2.2 J	4.0	0.33	ppbv	TO-15
Tetrachloroethylene	58.4	0.80	0.58	ppbv	TO-15
Toluene	4.1	4.0	0.40	ppbv	TO-15
Trichloroethylene	1070	9.2	4.5	ppbv	TO-15
Trichlorofluoromethane	10.6	4.0	0.27	ppbv	TO-15
m,p-Xylene	8.8	4.0	0.65	ppbv	TO-15
o-Xylene	2.7 J	4.0	0.39	ppbv	TO-15
Xylenes (total)	11.5	4.0	0.39	ppbv	TO-15
Acetone	49.9	9.5	1.6	ug/m3	TO-15
Benzene	7.3 J	13	1.3	ug/m3	TO-15
Chloroethane	14	11	1.1	ug/m3	TO-15
Chloroform	131	20	1.8	ug/m3	TO-15
1,1-Dichloroethane	5870	190	15	ug/m3	TO-15
1,1-Dichloroethylene	210	16	1.7	ug/m3	TO-15
Dichlorodifluoromethane	49.4	20	1.5	ug/m3	TO-15
trans-1,2-Dichloroethylene	106	16	1.2	ug/m3	TO-15
cis-1,2-Dichloroethylene	547	16	2.2	ug/m3	TO-15
Ethanol	34.9	19	7.0	ug/m3	TO-15
Ethylbenzene	10 J	17	1.7	ug/m3	TO-15
Hexane	9.9 J	14	1.1	ug/m3	TO-15
Methylene chloride	20	14	3.2	ug/m3	TO-15
1,1,1-Trichloroethane	18800	250	21	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene		11 J	20	1.6	ug/m3	TO-15
Tetrachloroethylene		396	5.4	3.9	ug/m3	TO-15
Toluene		15	15	1.5	ug/m3	TO-15
Trichloroethylene		5750	49	24	ug/m3	TO-15
Trichlorofluoromethane		59.6	22	1.5	ug/m3	TO-15
m,p-Xylene		38	17	2.8	ug/m3	TO-15
o-Xylene		12 J	17	1.7	ug/m3	TO-15
Xylenes (total)		50.0	17	1.7	ug/m3	TO-15

JB48053-10 SSV-3

Acetone	16.8	0.80	0.14	ppbv	TO-15
Benzene	1.0	0.80	0.084	ppbv	TO-15
1,1-Dichloroethane	0.40 J	0.80	0.066	ppbv	TO-15
Ethylbenzene	1.7	0.80	0.081	ppbv	TO-15
4-Ethyltoluene	0.54 J	0.80	0.060	ppbv	TO-15
Hexane	0.93	0.80	0.064	ppbv	TO-15
Methylene chloride	1.8	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone	3.8	0.80	0.23	ppbv	TO-15
Styrene	0.72 J	0.80	0.079	ppbv	TO-15
1,1,1-Trichloroethane	5.6	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene	2.0	0.80	0.066	ppbv	TO-15
1,3,5-Trimethylbenzene	0.56 J	0.80	0.060	ppbv	TO-15
Tetrachloroethylene	34.9	0.16	0.12	ppbv	TO-15
Tetrahydrofuran	3.4	0.80	0.18	ppbv	TO-15
Toluene	5.4	0.80	0.081	ppbv	TO-15
Trichloroethylene	2.6	0.16	0.078	ppbv	TO-15
m,p-Xylene	6.1	0.80	0.13	ppbv	TO-15
o-Xylene	2.2	0.80	0.077	ppbv	TO-15
Xylenes (total)	8.3	0.80	0.077	ppbv	TO-15
Acetone	39.9	1.9	0.33	ug/m3	TO-15
Benzene	3.2	2.6	0.27	ug/m3	TO-15
1,1-Dichloroethane	1.6 J	3.2	0.27	ug/m3	TO-15
Ethylbenzene	7.4	3.5	0.35	ug/m3	TO-15
4-Ethyltoluene	2.7 J	3.9	0.29	ug/m3	TO-15
Hexane	3.3	2.8	0.23	ug/m3	TO-15
Methylene chloride	6.3	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone	11	2.4	0.68	ug/m3	TO-15
Styrene	3.1 J	3.4	0.34	ug/m3	TO-15
1,1,1-Trichloroethane	31	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene	9.8	3.9	0.32	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.8 J	3.9	0.29	ug/m3	TO-15
Tetrachloroethylene	237	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran	10	2.4	0.53	ug/m3	TO-15
Toluene	20	3.0	0.31	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

Trichloroethylene		14	0.86	0.42	ug/m3	TO-15
m,p-Xylene		26	3.5	0.56	ug/m3	TO-15
o-Xylene		9.6	3.5	0.33	ug/m3	TO-15
Xylenes (total)		36	3.5	0.33	ug/m3	TO-15

JB48053-11 SSV-4

Acetone		125	0.80	0.14	ppbv	TO-15
Benzene		0.79 J	0.80	0.084	ppbv	TO-15
1,1-Dichloroethane		4.7	0.80	0.066	ppbv	TO-15
Dichlorodifluoromethane		3.9	0.80	0.062	ppbv	TO-15
Ethylbenzene		1.6	0.80	0.081	ppbv	TO-15
Ethyl Acetate		2.1	0.80	0.23	ppbv	TO-15
Freon 114		4.5	0.80	0.085	ppbv	TO-15
Hexane		0.86	0.80	0.064	ppbv	TO-15
Methylene chloride		3.2	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		3.2	0.80	0.23	ppbv	TO-15
Methyl Tert Butyl Ether		4.4	0.80	0.068	ppbv	TO-15
Propylene		7.5	2.0	0.13	ppbv	TO-15
1,1,1-Trichloroethane		73.3	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene		2.6	0.80	0.066	ppbv	TO-15
1,3,5-Trimethylbenzene		0.61 J	0.80	0.060	ppbv	TO-15
Tertiary Butyl Alcohol		9.9	0.80	0.18	ppbv	TO-15
Tetrachloroethylene		25.2	0.16	0.12	ppbv	TO-15
Tetrahydrofuran		1.9	0.80	0.18	ppbv	TO-15
Toluene		6.8	0.80	0.081	ppbv	TO-15
Trichloroethylene		0.65	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane		1.8	0.80	0.055	ppbv	TO-15
m,p-Xylene		5.6	0.80	0.13	ppbv	TO-15
o-Xylene		2.0	0.80	0.077	ppbv	TO-15
Xylenes (total)		7.6	0.80	0.077	ppbv	TO-15
Acetone		297	1.9	0.33	ug/m3	TO-15
Benzene		2.5 J	2.6	0.27	ug/m3	TO-15
1,1-Dichloroethane		19	3.2	0.27	ug/m3	TO-15
Dichlorodifluoromethane		19	4.0	0.31	ug/m3	TO-15
Ethylbenzene		6.9	3.5	0.35	ug/m3	TO-15
Ethyl Acetate		7.6	2.9	0.83	ug/m3	TO-15
Freon 114		31	5.6	0.59	ug/m3	TO-15
Hexane		3.0	2.8	0.23	ug/m3	TO-15
Methylene chloride		11	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		9.4	2.4	0.68	ug/m3	TO-15
Methyl Tert Butyl Ether		16	2.9	0.25	ug/m3	TO-15
Propylene		13	3.4	0.22	ug/m3	TO-15
1,1,1-Trichloroethane		400	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene		13	3.9	0.32	ug/m3	TO-15

Summary of Hits

Job Number: JB48053

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/19/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
1,3,5-Trimethylbenzene		3.0 J	3.9	0.29	ug/m3	TO-15
Tertiary Butyl Alcohol		30	2.4	0.55	ug/m3	TO-15
Tetrachloroethylene		171	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran		5.6	2.4	0.53	ug/m3	TO-15
Toluene		26	3.0	0.31	ug/m3	TO-15
Trichloroethylene		3.5	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane		10	4.5	0.31	ug/m3	TO-15
m,p-Xylene		24	3.5	0.56	ug/m3	TO-15
o-Xylene		8.7	3.5	0.33	ug/m3	TO-15
Xylenes (total)		33	3.5	0.33	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	IA-1		
Lab Sample ID:	JB48053-1	Date Sampled:	09/19/13
Matrix:	AIR - Indoor Air Comp.	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36126.D	1.6	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	640 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	33.6	0.20	0.034	ppbv		79.8	0.48	0.081	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	0.044	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.021	ppbv		1.0	0.64	0.067	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	0.17	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	0.23	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	0.066	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	0.061	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	0.053	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	0.053	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	0.093	ug/m3
74-87-3	50.49	Chloromethane	0.56	0.20	0.034	ppbv		1.2	0.41	0.070	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	0.088	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	0.10	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	0.34	0.20	0.058	ppbv		1.2	0.69	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	0.22	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.20	0.015	ppbv		2.2	0.99	0.074	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	0.25	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	0.059	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	0.086	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	0.15	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	0.095	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: IA-1	Date Sampled: 09/19/13
Lab Sample ID: JB48053-1	Date Received: 09/20/13
Matrix: AIR - Indoor Air Comp. Summa ID: A272	Percent Solids: n/a
Method: TO-15	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	144	0.50	0.19	ppbv	E	271	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.44	0.20	0.020	ppbv		1.9	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.20	0.057	ppbv		5.4	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.17	0.20	0.015	ppbv	J	0.84	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.31	0.20	0.020	ppbv		1.3	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	1.9	0.20	0.016	ppbv		6.7	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	6.7	0.20	0.039	ppbv		16	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.42	0.20	0.047	ppbv		1.5	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.20	0.058	ppbv		4.7	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	0.91	0.20	0.020	ppbv		3.9	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.23	0.20	0.016	ppbv		1.3	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.55	0.20	0.017	ppbv		2.7	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.17	0.20	0.015	ppbv	J	0.84	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.36	0.20	0.021	ppbv		1.7	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.56	0.040	0.029	ppbv		3.8	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.31	0.20	0.045	ppbv		0.91	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	4.5	0.20	0.020	ppbv		17	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	0.056	0.040	0.019	ppbv		0.30	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.014	ppbv		1.5	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	1.7	0.20	0.032	ppbv		7.4	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.60	0.20	0.019	ppbv		2.6	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	2.3	0.20	0.019	ppbv		10	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	AA-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-2	Date Received:	09/20/13
Matrix:	AIR - Ambient Air Comp. Summa ID: A345	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36128.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.5	0.20	0.034	ppbv		13	0.48	0.081	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	0.044	ug/m3
71-43-2	78.11	Benzene	0.25	0.20	0.021	ppbv		0.80	0.64	0.067	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	0.17	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	0.23	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	0.066	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	0.061	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	0.053	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	0.053	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	0.093	ug/m3
74-87-3	50.49	Chloromethane	0.43	0.20	0.034	ppbv		0.89	0.41	0.070	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	0.088	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	0.10	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	0.22	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.015	ppbv		2.4	0.99	0.074	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	0.25	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	0.059	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	0.086	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	0.15	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	0.095	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

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Report of Analysis

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Client Sample ID: AA-1	Date Sampled: 09/19/13
Lab Sample ID: JB48053-2	Date Received: 09/20/13
Matrix: AIR - Ambient Air Comp. Summa ID: A345	Percent Solids: n/a
Method: TO-15	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.8	0.50	0.19	ppbv		11	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.13	0.20	0.020	ppbv	J	0.56	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	0.57	0.20	0.057	ppbv		2.1	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.18	0.20	0.020	ppbv	J	0.74	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	0.34	0.20	0.016	ppbv		1.2	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.84	0.20	0.039	ppbv		2.1	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.46	0.20	0.047	ppbv		1.6	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.50	0.20	0.058	ppbv		1.5	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.020	ppbv		ND	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.17	0.20	0.017	ppbv	J	0.84	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.27	0.20	0.021	ppbv		1.3	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.14	0.040	0.029	ppbv		0.95	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.91	0.20	0.020	ppbv		3.4	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.014	ppbv		1.4	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	0.39	0.20	0.032	ppbv		1.7	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.15	0.20	0.019	ppbv	J	0.65	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.019	ppbv		2.3	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

ND = Not detected MDL - Method Detection Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-1		
Lab Sample ID:	JB48053-3	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A451,A541	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36130.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2	3W36150.D	24	09/25/13	YMH	n/a	n/a	V3W1391

	Initial Volume
Run #1	100 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	10.4	0.80	0.14	ppbv		24.7	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	2.5	0.80	0.084	ppbv		8.0	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	6.1	0.80	0.069	ppbv		19	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	4.1	0.80	0.074	ppbv		20	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	17.0	0.80	0.066	ppbv		68.8	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.80	0.80	0.062	ppbv		4.0	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	2.7	0.80	0.11	ppbv		11	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

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Report of Analysis

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Client Sample ID:	SV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-3	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A451,A541	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.77	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	0.53	0.80	0.078	ppbv	J	2.2	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.52	0.80	0.064	ppbv	J	1.8	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.80	0.19	ppbv		4.2	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.2	0.80	0.23	ppbv		18	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	ND	2.0	0.13	ppbv		ND	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	113	0.80	0.066	ppbv		617	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.5	0.80	0.066	ppbv		7.4	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	954 ^a	1.9	1.4	ppbv		6470 ^a	13	9.5	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.3	0.80	0.18	ppbv		6.8	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	2.2	0.80	0.081	ppbv		8.3	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	17.0	0.16	0.078	ppbv		91.4	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.73	0.80	0.055	ppbv	J	4.1	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.5	0.80	0.13	ppbv		11	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.90	0.80	0.077	ppbv		3.9	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.4	0.80	0.077	ppbv		15	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	86%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-3	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A451,A541	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SV-2	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-4	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1055	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36131.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	130	0.80	0.14	ppbv		309	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	2.6	0.80	0.084	ppbv		8.3	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	4.9	0.80	0.099	ppbv		33	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	4.5	0.80	0.069	ppbv		14	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	3.5	0.80	0.082	ppbv		9.2	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	59.7	0.80	0.074	ppbv		292	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	3.0	0.80	0.045	ppbv		19	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	157	0.80	0.066	ppbv		635	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.2	0.80	0.084	ppbv		4.8	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.1	0.80	0.062	ppbv		5.4	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	0.39	0.80	0.12	ppbv	J	3.3	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	1.7	0.80	0.059	ppbv		6.7	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.72	0.80	0.11	ppbv	J	2.9	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-2	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-4	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1055	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	4.8	2.0	0.74	ppbv		9.0	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.75	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	1.0	0.80	0.078	ppbv		4.1	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	1.4	0.80	0.064	ppbv		4.9	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.4	0.80	0.15	ppbv		5.9	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	13.9	0.80	0.19	ppbv		48.3	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	12.2	0.80	0.23	ppbv		36.0	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	8.4	2.0	0.13	ppbv		14	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	113	0.80	0.066	ppbv		617	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	7.8	0.80	0.066	ppbv		38	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.8	0.80	0.18	ppbv		5.5	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	43.2	0.16	0.12	ppbv		293	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.0	0.80	0.18	ppbv		2.9	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	4.7	0.80	0.081	ppbv		18	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	11.6	0.16	0.078	ppbv		62.3	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.5	0.80	0.055	ppbv		8.4	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	1.5	0.80	0.068	ppbv		3.8	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.1	0.80	0.13	ppbv		9.1	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.86	0.80	0.077	ppbv		3.7	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.0	0.80	0.077	ppbv		13	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-3		
Lab Sample ID:	JB48053-5	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36132.D	1	09/24/13	YMH	n/a	n/a	V3W1390
Run #2	3W36151.D	52	09/25/13	YMH	n/a	n/a	V3W1391

	Initial Volume
Run #1	20.0 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	149	4.0	0.68	ppbv		354	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	53.3	4.0	0.42	ppbv		170	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	68.8	4.0	0.35	ppbv		214	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	1940 ^a	21	2.1	ppbv		5120 ^a	55	5.5	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.37	ppbv		ND	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	266	4.0	1.2	ppbv		916	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	123	4.0	0.33	ppbv		498	16	1.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	4.0	0.42	ppbv		ND	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	10.8	4.0	0.33	ppbv		43.7	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.31	ppbv		ND	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	103	4.0	0.30	ppbv		408	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	31.8	4.0	0.55	ppbv		126	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: SV-3		
Lab Sample ID: JB48053-5		
Matrix: AIR - Soil Vapor Comp. Summa ID: A074,A409	Date Sampled: 09/19/13	
Method: TO-15	Date Received: 09/20/13	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	Percent Solids: n/a	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	10	3.7	ppbv		ND	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	243	4.0	0.40	ppbv		1060	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	212	4.0	0.39	ppbv		869	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	134	4.0	0.32	ppbv		472	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	70.4	4.0	0.93	ppbv		245	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	60.5	4.0	1.2	ppbv		178	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	641	10	0.63	ppbv		1100	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	2.0	4.0	0.33	ppbv	J	11	22	1.8	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	4.0	0.33	ppbv		ND	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	162	4.0	0.42	ppbv		757	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	6.8	4.0	0.88	ppbv		21	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.80	0.58	ppbv		ND	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	103	4.0	0.40	ppbv		388	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	9.9	0.80	0.39	ppbv		53	4.3	2.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.27	ppbv		ND	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	421	4.0	0.34	ppbv		1080	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	213	4.0	0.65	ppbv		925	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	5.6	4.0	0.39	ppbv		24	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	219	4.0	0.39	ppbv		951	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%	54% ^b	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-5	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A074,A409	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-4		
Lab Sample ID:	JB48053-6	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36133.D	1	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36152.D	25	09/25/13	YMH	n/a	n/a	V3W1391

	Initial Volume
Run #1	100 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	10.8	0.80	0.14	ppbv		25.7	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	3.3	0.80	0.084	ppbv		11	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	1.2	0.80	0.069	ppbv		3.7	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	1.8	0.80	0.082	ppbv		4.7	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	25.0	0.80	0.074	ppbv		122	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	0.71	0.80	0.23	ppbv	J	2.4	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	501 ^a	10	0.82	ppbv		2030 ^a	40	3.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	3.7	0.80	0.084	ppbv		15	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	2.9	0.80	0.062	ppbv		14	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	21.0	0.80	0.059	ppbv		83.3	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	155 ^a	10	1.4	ppbv		615 ^a	40	5.6	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SV-4		
Lab Sample ID: JB48053-6		
Matrix: AIR - Soil Vapor Comp. Summa ID: A849,A782	Date Sampled: 09/19/13	
Method: TO-15	Date Received: 09/20/13	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	Percent Solids: n/a	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.76	0.80	0.081	ppbv	J	3.3	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.39	0.80	0.060	ppbv	J	1.9	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	0.44	0.80	0.078	ppbv	J	1.8	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.92	0.80	0.064	ppbv		3.2	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.0	0.80	0.19	ppbv		3.5	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.1	0.80	0.23	ppbv		6.2	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	7.3	2.0	0.13	ppbv		13	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	598 ^a	10	0.82	ppbv		3260 ^a	55	4.5	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.39	0.80	0.12	ppbv	J	2.1	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.6	0.80	0.066	ppbv		7.9	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.40	0.80	0.060	ppbv	J	2.0	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.9	0.80	0.18	ppbv		5.8	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	759 ^a	2.0	1.4	ppbv		5150 ^a	14	9.5	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.79	0.80	0.18	ppbv	J	2.3	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	2.1	0.80	0.081	ppbv		7.9	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	314 ^a	2.0	0.97	ppbv		1690 ^a	11	5.2	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.3	0.80	0.055	ppbv		7.3	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.3	0.80	0.13	ppbv		10	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.84	0.80	0.077	ppbv		3.6	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.1	0.80	0.077	ppbv		13	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	88%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SV-4	
Lab Sample ID: JB48053-6	Date Sampled: 09/19/13
Matrix: AIR - Soil Vapor Comp. Summa ID: A849,A782	Date Received: 09/20/13
Method: TO-15	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SV-X		
Lab Sample ID:	JB48053-7	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36139.D	1	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36153.D	46	09/25/13	YMH	n/a	n/a	V3W1391

	Initial Volume
Run #1	20.0 ml
Run #2	200 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	148	4.0	0.68	ppbv		352	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	59.4	4.0	0.42	ppbv		190	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	72.2	4.0	0.35	ppbv		225	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	1760 ^a	18	1.9	ppbv		4640 ^a	47	5.0	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.37	ppbv		ND	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	297	4.0	1.2	ppbv		1020	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	135	4.0	0.33	ppbv		546	16	1.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	20.5	4.0	0.42	ppbv		81.3	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	0.33	ppbv		ND	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.31	ppbv		ND	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	115	4.0	0.30	ppbv		456	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	34.7	4.0	0.55	ppbv		138	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: SV-X		
Lab Sample ID: JB48053-7		Date Sampled: 09/19/13
Matrix: AIR - Soil Vapor Comp. Summa ID: A902,A792		Date Received: 09/20/13
Method: TO-15		Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	10	3.7	ppbv		ND	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	242	4.0	0.40	ppbv		1050	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	230	4.0	0.39	ppbv		943	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	147	4.0	0.32	ppbv		518	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	72.3	4.0	0.93	ppbv		251	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	66.3	4.0	1.2	ppbv		196	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	637	10	0.63	ppbv		1090	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	2.6	4.0	0.33	ppbv	J	14	22	1.8	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	4.0	0.33	ppbv		ND	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	38.2	4.0	0.30	ppbv		188	20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	176	4.0	0.42	ppbv		822	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	0.88	ppbv		ND	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.66	0.80	0.58	ppbv	J	4.5	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	115	4.0	0.40	ppbv		433	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	11.9	0.80	0.39	ppbv		64.0	4.3	2.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.27	ppbv		ND	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	450	4.0	0.34	ppbv		1150	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	210	4.0	0.65	ppbv		912	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	4.9	4.0	0.39	ppbv		21	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	214	4.0	0.39	ppbv		930	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%	53% ^b	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SV-X	
Lab Sample ID: JB48053-7	Date Sampled: 09/19/13
Matrix: AIR - Soil Vapor Comp. Summa ID: A902,A792	Date Received: 09/20/13
Method: TO-15	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SSV-1		
Lab Sample ID:	JB48053-8	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A373,A801	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W36140.D	48	09/25/13	YMH	n/a	n/a	V3W1390
Run #2	3W36179.D	48	09/26/13	YMH	n/a	n/a	V3W1392

	Initial Volume
Run #1	200 ml
Run #2	15.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	441	19	3.3	ppbv		1050	45	7.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	19	1.9	ppbv		ND	42	4.2	ug/m3
71-43-2	78.11	Benzene	ND	19	2.0	ppbv		ND	61	6.4	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	19	2.4	ppbv		ND	130	16	ug/m3
75-25-2	252.8	Bromoform	ND	19	2.1	ppbv		ND	200	22	ug/m3
74-83-9	94.94	Bromomethane	ND	19	1.7	ppbv		ND	74	6.6	ug/m3
593-60-2	106.9	Bromoethene	ND	19	1.4	ppbv		ND	83	6.1	ug/m3
100-44-7	126	Benzyl Chloride	ND	19	2.4	ppbv		ND	98	12	ug/m3
75-15-0	76.14	Carbon disulfide	ND	19	1.7	ppbv		ND	59	5.3	ug/m3
108-90-7	112.6	Chlorobenzene	ND	19	2.4	ppbv		ND	88	11	ug/m3
75-00-3	64.52	Chloroethane	ND	19	2.0	ppbv		ND	50	5.3	ug/m3
67-66-3	119.4	Chloroform	ND	19	1.8	ppbv		ND	93	8.8	ug/m3
74-87-3	50.49	Chloromethane	ND	19	3.2	ppbv		ND	39	6.6	ug/m3
107-05-1	76.53	3-Chloropropene	ND	19	2.6	ppbv		ND	59	8.1	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	19	1.9	ppbv		ND	98	9.8	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	19	1.1	ppbv		ND	120	6.9	ug/m3
110-82-7	84.16	Cyclohexane	ND	19	5.6	ppbv		ND	65	19	ug/m3
75-34-3	98.96	1,1-Dichloroethane	2890	19	1.6	ppbv		11700	77	6.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	68.3	19	2.0	ppbv		271	75	7.9	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	19	2.6	ppbv		ND	150	20	ug/m3
107-06-2	98.96	1,2-Dichloroethane	9.5	19	1.6	ppbv	J	38	77	6.5	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	19	3.8	ppbv		ND	88	18	ug/m3
123-91-1	88.12	1,4-Dioxane	46.0	19	5.8	ppbv		166	68	21	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	19	1.5	ppbv		ND	94	7.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	19	2.8	ppbv		ND	160	24	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	19	1.4	ppbv		ND	75	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	19	2.6	ppbv		ND	75	10	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	19	1.8	ppbv		ND	86	8.2	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	19	2.4	ppbv		ND	110	14	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	19	2.8	ppbv		ND	110	17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	19	2.1	ppbv		ND	110	13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	19	2.0	ppbv		ND	86	9.1	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSV-1			Date Sampled:	09/19/13
Lab Sample ID:	JB48053-8			Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A373,A801	Percent Solids:	n/a
Method:	TO-15				
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY				

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	48	18	ppbv		ND	90	34	ug/m3
100-41-4	106.2	Ethylbenzene	ND	19	1.9	ppbv		ND	83	8.3	ug/m3
141-78-6	88	Ethyl Acetate	ND	19	5.5	ppbv		ND	68	20	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	19	1.4	ppbv		ND	93	6.9	ug/m3
76-13-1	187.4	Freon 113	ND	19	2.0	ppbv		ND	150	15	ug/m3
76-14-2	170.9	Freon 114	ND	19	2.0	ppbv		ND	130	14	ug/m3
142-82-5	100.2	Heptane	ND	19	1.9	ppbv		ND	78	7.8	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	19	6.0	ppbv		ND	200	64	ug/m3
110-54-3	86.17	Hexane	ND	19	1.5	ppbv		ND	67	5.3	ug/m3
591-78-6	100	2-Hexanone	ND	19	2.4	ppbv		ND	78	9.8	ug/m3
67-63-0	60.1	Isopropyl Alcohol	133	19	3.7	ppbv		327	47	9.1	ug/m3
75-09-2	84.94	Methylene chloride	ND	19	4.5	ppbv		ND	66	16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	19	5.6	ppbv		ND	56	17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	19	2.8	ppbv		ND	78	11	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	19	1.6	ppbv		ND	69	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	19	3.9	ppbv		ND	78	16	ug/m3
115-07-1	42	Propylene	ND	48	3.0	ppbv		ND	82	5.2	ug/m3
100-42-5	104.1	Styrene	ND	19	1.9	ppbv		ND	81	8.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	33300 ^a	260	21	ppbv		182000 ^a	1400	110	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	19	2.9	ppbv		ND	130	20	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	19	3.0	ppbv		ND	100	16	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	19	7.6	ppbv		ND	140	56	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	19	1.6	ppbv		ND	93	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	19	1.4	ppbv		ND	93	6.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	19	2.0	ppbv		ND	89	9.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	19	4.2	ppbv		ND	58	13	ug/m3
127-18-4	165.8	Tetrachloroethylene	51.8	3.8	2.8	ppbv		351	26	19	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	19	4.3	ppbv		ND	56	13	ug/m3
108-88-3	92.14	Toluene	12.1	19	1.9	ppbv	J	45.6	72	7.2	ug/m3
79-01-6	131.4	Trichloroethylene	6.4	3.8	1.9	ppbv		34	20	10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	19	1.3	ppbv		ND	110	7.3	ug/m3
75-01-4	62.5	Vinyl chloride	ND	19	1.6	ppbv		ND	49	4.1	ug/m3
108-05-4	86	Vinyl Acetate	ND	19	5.6	ppbv		ND	67	20	ug/m3
	106.2	m,p-Xylene	10.8	19	3.1	ppbv	J	46.9	83	13	ug/m3
95-47-6	106.2	o-Xylene	ND	19	1.9	ppbv		ND	83	8.3	ug/m3
1330-20-7	106.2	Xylenes (total)	10.8	19	1.9	ppbv	J	46.9	83	8.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%	88%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SSV-1	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-8	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A373,A801	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SSV-2		
Lab Sample ID:	JB48053-9	Date Sampled:	09/19/13
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/20/13
Method:	TO-15	Percent Solids:	n/a
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43827.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2	W43837.D	46	09/25/13	DFT	n/a	n/a	VW1754

	Initial Volume
Run #1	20.0 ml
Run #2	80.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	21.0	4.0	0.68	ppbv		49.9	9.5	1.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.39	ppbv		ND	8.8	0.86	ug/m3
71-43-2	78.11	Benzene	2.3	4.0	0.42	ppbv	J	7.3	13	1.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.49	ppbv		ND	27	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.43	ppbv		ND	41	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.34	ppbv		ND	16	1.3	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.29	ppbv		ND	17	1.3	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	0.49	ppbv		ND	21	2.5	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.35	ppbv		ND	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.51	ppbv		ND	18	2.3	ug/m3
75-00-3	64.52	Chloroethane	5.4	4.0	0.41	ppbv		14	11	1.1	ug/m3
67-66-3	119.4	Chloroform	26.9	4.0	0.37	ppbv		131	20	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.67	ppbv		ND	8.3	1.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.55	ppbv		ND	13	1.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.40	ppbv		ND	21	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.23	ppbv		ND	25	1.4	ug/m3
110-82-7	84.16	Cyclohexane	ND	4.0	1.2	ppbv		ND	14	4.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	1450 ^a	46	3.8	ppbv		5870 ^a	190	15	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	53.0	4.0	0.42	ppbv		210	16	1.7	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.0	0.54	ppbv		ND	31	4.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	0.33	ppbv		ND	16	1.3	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.80	ppbv		ND	18	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.2	ppbv		ND	14	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	10.0	4.0	0.31	ppbv		49.4	20	1.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.58	ppbv		ND	34	4.9	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	26.7	4.0	0.30	ppbv		106	16	1.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	138	4.0	0.55	ppbv		547	16	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.37	ppbv		ND	18	1.7	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.50	ppbv		ND	24	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.59	ppbv		ND	24	3.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.43	ppbv		ND	24	2.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.42	ppbv		ND	18	1.9	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SSV-2			Date Sampled:	09/19/13
Lab Sample ID:	JB48053-9			Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1064,A400			Percent Solids:	n/a
Method:	TO-15				
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY				

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	18.5	10	3.7	ppbv		34.9	19	7.0	ug/m3
100-41-4	106.2	Ethylbenzene	2.3	4.0	0.40	ppbv	J	10	17	1.7	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.0	1.1	ppbv		ND	14	4.0	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.41	ppbv		ND	31	3.1	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.42	ppbv		ND	28	2.9	ug/m3
142-82-5	100.2	Heptane	ND	4.0	0.39	ppbv		ND	16	1.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.3	ppbv		ND	43	14	ug/m3
110-54-3	86.17	Hexane	2.8	4.0	0.32	ppbv	J	9.9	14	1.1	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.49	ppbv		ND	16	2.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	4.0	0.77	ppbv		ND	9.8	1.9	ug/m3
75-09-2	84.94	Methylene chloride	5.7	4.0	0.93	ppbv		20	14	3.2	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	4.0	1.2	ppbv		ND	12	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.59	ppbv		ND	16	2.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.34	ppbv		ND	14	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.81	ppbv		ND	16	3.3	ug/m3
115-07-1	42	Propylene	ND	10	0.63	ppbv		ND	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	4.0	0.40	ppbv		ND	17	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	3440 ^a	46	3.8	ppbv		18800 ^a	250	21	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.0	0.61	ppbv		ND	27	4.2	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.62	ppbv		ND	22	3.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	1.6	ppbv		ND	30	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.2	4.0	0.33	ppbv	J	11	20	1.6	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	4.0	0.30	ppbv		ND	20	1.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	0.42	ppbv		ND	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	0.88	ppbv		ND	12	2.7	ug/m3
127-18-4	165.8	Tetrachloroethylene	58.4	0.80	0.58	ppbv		396	5.4	3.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	0.90	ppbv		ND	12	2.7	ug/m3
108-88-3	92.14	Toluene	4.1	4.0	0.40	ppbv		15	15	1.5	ug/m3
79-01-6	131.4	Trichloroethylene	1070 ^a	9.2	4.5	ppbv		5750 ^a	49	24	ug/m3
75-69-4	137.4	Trichlorofluoromethane	10.6	4.0	0.27	ppbv		59.6	22	1.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	0.34	ppbv		ND	10	0.87	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	1.2	ppbv		ND	14	4.2	ug/m3
	106.2	m,p-Xylene	8.8	4.0	0.65	ppbv		38	17	2.8	ug/m3
95-47-6	106.2	o-Xylene	2.7	4.0	0.39	ppbv	J	12	17	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	11.5	4.0	0.39	ppbv		50.0	17	1.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	87%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SSV-2	Date Sampled: 09/19/13
Lab Sample ID: JB48053-9	Date Received: 09/20/13
Matrix: AIR - Soil Vapor Comp. Summa ID: A1064,A400	Percent Solids: n/a
Method: TO-15	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SSV-3	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-10	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A247	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43828.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	16.8	0.80	0.14	ppbv		39.9	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	1.0	0.80	0.084	ppbv		3.2	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.069	ppbv		ND	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40	0.80	0.066	ppbv	J	1.6	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.062	ppbv		ND	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SSV-3			Date Sampled:	09/19/13
Lab Sample ID:	JB48053-10			Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A247	Percent Solids:	n/a
Method:	TO-15				
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY				

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.7	0.80	0.081	ppbv		7.4	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.54	0.80	0.060	ppbv	J	2.7	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.078	ppbv		ND	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.93	0.80	0.064	ppbv		3.3	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	1.8	0.80	0.19	ppbv		6.3	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.80	0.23	ppbv		11	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	ND	2.0	0.13	ppbv		ND	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	0.72	0.80	0.079	ppbv	J	3.1	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	5.6	0.80	0.066	ppbv		31	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0	0.80	0.066	ppbv		9.8	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.56	0.80	0.060	ppbv	J	2.8	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	34.9	0.16	0.12	ppbv		237	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	3.4	0.80	0.18	ppbv		10	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	5.4	0.80	0.081	ppbv		20	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	2.6	0.16	0.078	ppbv		14	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.055	ppbv		ND	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	6.1	0.80	0.13	ppbv		26	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	2.2	0.80	0.077	ppbv		9.6	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	8.3	0.80	0.077	ppbv		36	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SSV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-11	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1020	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W43830.D	1	09/24/13	DFT	n/a	n/a	VW1754
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	125	0.80	0.14	ppbv		297	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	0.79	0.80	0.084	ppbv	J	2.5	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.069	ppbv		ND	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	4.7	0.80	0.066	ppbv		19	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	3.9	0.80	0.062	ppbv		19	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SSV-4	Date Sampled:	09/19/13
Lab Sample ID:	JB48053-11	Date Received:	09/20/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1020	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.74	ppbv		ND	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.6	0.80	0.081	ppbv		6.9	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	2.1	0.80	0.23	ppbv		7.6	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	4.5	0.80	0.085	ppbv		31	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.078	ppbv		ND	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	0.86	0.80	0.064	ppbv		3.0	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	3.2	0.80	0.19	ppbv		11	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.2	0.80	0.23	ppbv		9.4	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	4.4	0.80	0.068	ppbv		16	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	7.5	2.0	0.13	ppbv		13	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	73.3	0.80	0.066	ppbv		400	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.6	0.80	0.066	ppbv		13	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.61	0.80	0.060	ppbv	J	3.0	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	9.9	0.80	0.18	ppbv		30	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	25.2	0.16	0.12	ppbv		171	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.9	0.80	0.18	ppbv		5.6	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	6.8	0.80	0.081	ppbv		26	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.65	0.16	0.078	ppbv		3.5	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.8	0.80	0.055	ppbv		10	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	5.6	0.80	0.13	ppbv		24	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	2.0	0.80	0.077	ppbv		8.7	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	7.6	0.80	0.077	ppbv		33	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



CHAIN OF CUSTODY

Air Sampling Field Data Sheet

AIR

FED-EX Tracking #	Box # / Qty
Lab Quote #	Lab Job #

PAGE 1 OF 2

Company Name Ca Rich Consultants, LLC				Project Name Former Zor Chemical				Temperature (Fahrenheit)				Requested Analysis											
Address 17 Dupont Street				Street 1801 Falmouth Avenue				Start: Maximum:															
City Plainville NY 11803				City New Hyde Park NY				Stop: Minimum:															
Project Contact Jessica Proserio				Project #				Atmospheric Pressure (Inches of Hg)															
Phone # (516) 576-8844				Client Purchase Order #				Start: Maximum:															
Fax #								Stop: Minimum:				Standard TO-15 Reporting List											
Sampler(s) Name(s) Jessica Proserio				Other weather comment:																			
Lab Sample #		Field ID / Point of Collection		Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information									
				Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.						
1		IA-1		I	A122	6L	FC119	9/19/13	7:30	30	60	JP	9/19/13	3:30	10	75	JP	X					
2		AA-1		A	A345	6L	FC347	9/19/13	7:30	30	60	JP	9/19/13	3:30	6	75	JP	X					
3		SV-1		SV	A451	6L	FC196	9/19/13	8:18	30	60	JP	9/19/13	10:45	3	75	JP	X					
4		SV-2		SV	A1055	6L	FC364	9/19/13	8:15	30	60	JP	9/19/13	10:46	2	75	JP	X					
5		SV-3		SV	A074	6L	FC487	9/19/13	8:10	30	60	JP	9/19/13	10:35	4	75	JP	X					
6		SV-4		SV	A849	6L	FC524	9/19/13	8:25	30	60	JP	9/19/13	10:50	4	75	JP	X					
7		SV-X		SV	A902	6L	FC109	9/19/13	-	30	60	JP	9/19/13	-	3	75	JP	X					
8		SSV-1		SV	A373	6L	FC322	9/19/13	8:20	30	60	JP	9/19/13	10:53	3	75	JP	X					
9		SSV-2		SV	A1064	6L	FC526	9/19/13	8:27	30	60	JP	9/19/13	11:05	4	75	JP	X					
10		SSV-3		SV	A247	6L	FC268	9/19/13	8:34	30	60	JP	9/19/13	11	4	75	JP	X					
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks															
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other				Approved By: _____ Date: _____				All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: NYASPB				SUMMA											
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Lab #1 1 Day Mariano				Date Time: 9/16/13 14:45				Received By: 1 Chris Lat				Relinquished By: 2 Chris Lat				Date Time: 9/20/13 15:40				Received By: 2 Michael Bent			
Relinquished by: 3				Date Time: 9/20/13				Received By: 3				Relinquished By: 4				Date Time: 9/20/13 15:40				Received By: 4			
Relinquished by: 5				Date Time:				Received By: 5				Custody Seal #											

YA

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JB48053: Chain of Custody

Page 1 of 3

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #

Bottle Order Control # 1

PAGE 2 OF 2

Lab Quote #

Lab Job # 5648053

[illegible]

JB48053: Chain of Custody

Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB48053 **Client:** _____ **Project:** _____
Date / Time Received: 9/20/2013 **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security

<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

<u>Y or N</u>
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: _____
4. No. Coolers: _____ 0

Quality Control Preservation

<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler: ☐ ☒ ☐	
2. Trip Blank listed on COC: ☐ ☒ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☐ ☐ ☒	

Comments

Sample Integrity - Documentation

<u>Y or N</u>
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

<u>Y or N</u>
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: _____ Intact

Sample Integrity - Instructions

<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐ ☒	
5. Filtering instructions clear: ☐ ☐ ☒	

Summa Canister and Flow Controller Log

Page 1 of 1

Job Number: JB48053

Account: CARICH C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Received: 09/20/13

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A272	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-1	09/23/13	RC	10		1	1.6
A345	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-2	09/23/13	RC	6			1
A451	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-3	09/23/13	RC	3			1
A1055	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-4	09/23/13	RC	5			1
A074	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-5	09/23/13	RC	5			1
A849	6	29.4	09/16/13	FZ	CP6454	W43785.D	JB48053-6	09/23/13	RC	4			1
A902	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-7	09/23/13	RC	2			1
A373	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-8	09/23/13	RC	2			1
A1064	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-9	09/23/13	RC	2			1
A247	6	29.4	09/16/13	FZ	CP6454	W43785.D	JB48053-10	09/23/13	RC	4			1
A1020	6	29.4	09/16/13	FZ	CP6449	5W218.D	JB48053-11	09/23/13	RC	2			1

FLOW CONTROLLERS								
Shipping					Receiving			
Flow Ctrl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	
FC109	09/16/13	FZ	37.5	2	09/23/13	RC	41.5	
FC119	09/16/13	FZ	9.4	8	09/23/13	RC	9.8	
FC196	09/16/13	FZ	37.5	2	09/23/13	RC	42.6	
FC268	09/16/13	FZ	37.5	2	09/23/13	RC	42.1	
FC347	09/16/13	FZ	9.4	8	09/23/13	RC	10.1	
FC364	09/16/13	FZ	37.5	2	09/23/13	RC	40.5	
FC372	09/16/13	FZ	37.5	2	09/23/13	RC	41.8	
FC429	09/16/13	FZ	37.5	2	09/23/13	RC	41.6	
FC487	09/16/13	FZ	37.5	2	09/23/13	RC	41.2	
FC526	09/16/13	FZ	37.5	2	09/23/13	RC	39.5	
FC528	09/16/13	FZ	37.5	2	09/23/13	RC	40.8	

Accutest Bottle Order(s):

KP-9/9/2013-33

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 09/16/13 70 29.92



11/05/13

Technical Report for

C. A. Rich Consultants

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Accutest Job Number: JB48020

Sampling Date: 09/18/13

Report to:

C. A. Rich Consultants

jproscia@carichinc.com

ATTN: Jessica Proscia

Total number of pages in report: **37**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

C. A. Rich Consultants

Job No: JB48020

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB48020-1	09/18/13	09:00	JP	09/20/13	SO	Soil	ISB-1 (0-2 FT)
JB48020-2	09/18/13	10:20	JP	09/20/13	SO	Soil	ISB-2 (0-2 FT)
JB48020-3	09/18/13	13:05	JP	09/20/13	SO	Soil	SSB (5-8 FT)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants**Job No** JB48020**Site:** Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,**Report Date** 10/7/2013 4:16:19 PM

On 09/20/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB48020 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO**Batch ID:** VE9126

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB47695-14MS, JB47695-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO**Batch ID:** VV5946

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48020-2MS, JB48020-2MSD were used as the QC samples indicated.
- VV5946-BS for Freon 113: High percent recoveries and no associated positive found in the QC batch.

Matrix: SO**Batch ID:** VX6071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48511-7MS, JB48511-3DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for 2-Butanone (MEK), Methylene chloride are outside control limits for sample JB48511-3DUP. High RPD due to low concentration of hit

Extractables by GCMS By Method SW846 8270D

Matrix: SO**Batch ID:** OP69215

- All samples were extracted within the recommended method holding time.
- Sample(s) JB48033-13MS, JB48033-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP69228

- All samples were extracted within the recommended method holding time.
- Sample(s) JB48030-1MS, JB48030-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor are outside control limits for sample OP69228-MSD. Analytical precision exceeds standard laboratory control limits.
- JB48020-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB48020-3 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to dilution.

Extractables by GC By Method SW846 8082A

Matrix: SO

Batch ID: OP69227

- All samples were extracted within the recommended method holding time.
- Sample(s) JB47842-5MS, JB47842-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB48020-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO

Batch ID: MP74952

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48570-1MS, JB48570-1MSD, JB48570-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Calcium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for MSD for Calcium are outside control limits for sample MP74952-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Silver, Sodium, Zinc are outside control limits for sample MP74952-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP74825

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48017-1MS, JB48017-1MSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN92022

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB48020

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/18/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB48020-1 ISB-1 (0-2 FT)

m,p-Xylene	0.47 J	1.0	0.18	ug/kg	SW846 8260B
Xylene (total)	0.47 J	1.0	0.14	ug/kg	SW846 8260B
Benzo(a)anthracene	15.1 J	30	9.8	ug/kg	SW846 8270D
Benzo(a)pyrene	16.2 J	30	9.2	ug/kg	SW846 8270D
Benzo(b)fluoranthene	16.8 J	30	10	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	12.2 J	30	11	ug/kg	SW846 8270D
Chrysene	16.5 J	30	10	ug/kg	SW846 8270D
Fluoranthene	23.8 J	30	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	12.8 J	30	10	ug/kg	SW846 8270D
Pyrene	24.7 J	30	12	ug/kg	SW846 8270D
4,4'-DDD	3.9	0.63	0.34	ug/kg	SW846 8081B
4,4'-DDE	2.8	0.63	0.25	ug/kg	SW846 8081B
4,4'-DDT	15.2	0.63	0.31	ug/kg	SW846 8081B
Aluminum	3100	52		mg/kg	SW846 6010C
Chromium	7.5	1.0		mg/kg	SW846 6010C
Copper	7.0	2.6		mg/kg	SW846 6010C
Iron	7790	52		mg/kg	SW846 6010C
Lead	10.9	2.1		mg/kg	SW846 6010C
Magnesium	708	520		mg/kg	SW846 6010C
Manganese	139	1.6		mg/kg	SW846 6010C
Nickel	7.5	4.1		mg/kg	SW846 6010C
Vanadium	8.0	5.2		mg/kg	SW846 6010C
Zinc	18.9	2.1		mg/kg	SW846 6010C

JB48020-2 ISB-2 (0-2 FT)

Benzene	0.47 J	1.2	0.15	ug/kg	SW846 8260B
Ethylbenzene	0.93 J	1.2	0.33	ug/kg	SW846 8260B
Toluene	1.2	1.2	0.13	ug/kg	SW846 8260B
m,p-Xylene	2.5	1.2	0.22	ug/kg	SW846 8260B
o-Xylene	0.76 J	1.2	0.17	ug/kg	SW846 8260B
Xylene (total)	3.2	1.2	0.17	ug/kg	SW846 8260B
Benzo(a)anthracene	38.9	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene	41.6	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	45.0	34	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	28.1 J	34	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene	22.0 J	34	13	ug/kg	SW846 8270D
Chrysene	38.4	34	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	82.5	67	30	ug/kg	SW846 8270D
Fluoranthene	69.0	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	27.9 J	34	12	ug/kg	SW846 8270D
Phenanthrene	34.1	34	15	ug/kg	SW846 8270D
Pyrene	64.7	34	13	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB48020

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/18/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
alpha-Chlordane		2.1	0.67	0.25	ug/kg	SW846 8081B
gamma-Chlordane		2.1	0.67	0.47	ug/kg	SW846 8081B
4,4' -DDD		0.92	0.67	0.37	ug/kg	SW846 8081B
4,4' -DDE		1.4	0.67	0.27	ug/kg	SW846 8081B
4,4' -DDT		3.9	0.67	0.33	ug/kg	SW846 8081B
Aluminum		7460	52		mg/kg	SW846 6010C
Arsenic		3.3	2.1		mg/kg	SW846 6010C
Barium		26.5	21		mg/kg	SW846 6010C
Beryllium		0.31	0.21		mg/kg	SW846 6010C
Calcium		912	520		mg/kg	SW846 6010C
Chromium		11.2	1.0		mg/kg	SW846 6010C
Copper		8.5	2.6		mg/kg	SW846 6010C
Iron		12100	52		mg/kg	SW846 6010C
Lead		13.7	2.1		mg/kg	SW846 6010C
Magnesium		1150	520		mg/kg	SW846 6010C
Manganese		176	1.6		mg/kg	SW846 6010C
Nickel		9.7	4.2		mg/kg	SW846 6010C
Vanadium		14.9	5.2		mg/kg	SW846 6010C
Zinc		27.1	2.1		mg/kg	SW846 6010C

JB48020-3 SSB (5-8 FT)

Carbon disulfide	33.8 J	370	8.7	ug/kg	SW846 8260B
1,1-Dichloroethane	201 J	370	10	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	23.0 J	370	14	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	60.4 J	370	18	ug/kg	SW846 8260B
Ethylbenzene	218	74	20	ug/kg	SW846 8260B
Isopropylbenzene	446	370	5.5	ug/kg	SW846 8260B
Methylcyclohexane	66.9 J	370	13	ug/kg	SW846 8260B
Tetrachloroethene	55.7 J	370	13	ug/kg	SW846 8260B
Toluene	174	74	7.8	ug/kg	SW846 8260B
1,1,1-Trichloroethane	21.4 J	370	7.9	ug/kg	SW846 8260B
Trichloroethene	115 J	370	13	ug/kg	SW846 8260B
m,p-Xylene	143	74	13	ug/kg	SW846 8260B
o-Xylene	50.1 J	74	10	ug/kg	SW846 8260B
Xylene (total)	193	74	10	ug/kg	SW846 8260B
Anthracene	71.1	39	14	ug/kg	SW846 8270D
Benzo(a)anthracene	164	39	13	ug/kg	SW846 8270D
Benzo(a)pyrene	83.4	39	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	175	39	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	107	39	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	62.4	39	15	ug/kg	SW846 8270D
Butyl benzyl phthalate	723	78	22	ug/kg	SW846 8270D
2-Chloronaphthalene	1010	78	12	ug/kg	SW846 8270D
Carbazole	149	78	18	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB48020

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 09/18/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
Dibenzo(a,h)anthracene		29.3 J	39	13	ug/kg	SW846 8270D
Di-n-butyl phthalate		56300	1600	170	ug/kg	SW846 8270D
Di-n-octyl phthalate		719	78	19	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		9780	1600	690	ug/kg	SW846 8270D
Fluoranthene		390	39	17	ug/kg	SW846 8270D
Fluorene		120	39	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		91.8	39	13	ug/kg	SW846 8270D
2-Methylnaphthalene		920	78	22	ug/kg	SW846 8270D
Naphthalene		1260	39	11	ug/kg	SW846 8270D
Phenanthrene		480	39	18	ug/kg	SW846 8270D
Pyrene		354	39	15	ug/kg	SW846 8270D
alpha-Chlordane		2380	79	29	ug/kg	SW846 8081B
gamma-Chlordane		2850	79	54	ug/kg	SW846 8081B
Dieldrin		1760	79	31	ug/kg	SW846 8081B
Aluminum		6350	58		mg/kg	SW846 6010C
Arsenic		3.7	2.3		mg/kg	SW846 6010C
Barium		40.8	23		mg/kg	SW846 6010C
Beryllium		0.23	0.23		mg/kg	SW846 6010C
Calcium		1670	580		mg/kg	SW846 6010C
Chromium		11.6	1.2		mg/kg	SW846 6010C
Copper		13.9	2.9		mg/kg	SW846 6010C
Iron		7730	58		mg/kg	SW846 6010C
Lead		59.2	2.3		mg/kg	SW846 6010C
Magnesium		985	580		mg/kg	SW846 6010C
Manganese		60.3	1.7		mg/kg	SW846 6010C
Mercury		34.0	3.6		mg/kg	SW846 7471B
Nickel		9.5	4.6		mg/kg	SW846 6010C
Vanadium		12.9	5.8		mg/kg	SW846 6010C
Zinc		58.5	2.3		mg/kg	SW846 6010C

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X140300.D	1	10/02/13	NT	n/a	n/a	VX6071
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	0.11	ug/kg	
75-25-2	Bromoform	ND	5.1	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.23	ug/kg	
67-66-3	Chloroform	ND	5.1	0.084	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.1	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.90	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	0.19	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/kg	
76-13-1	Freon 113	ND	5.1	0.44	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.1	0.63	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	0.075	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.1	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.76	ug/kg	
75-09-2	Methylene chloride	ND	5.1	1.3	ug/kg	
100-42-5	Styrene	ND	5.1	0.093	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.1	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	0.15	ug/kg	
	m,p-Xylene	0.47	1.0	0.18	ug/kg	J
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	0.47	1.0	0.14	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		59-130%
17060-07-0	1,2-Dichloroethane-D4	93%		65-123%
2037-26-5	Toluene-D8	98%		80-124%
460-00-4	4-Bromofluorobenzene	106%		71-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P77911.D	1	09/25/13	AD	09/23/13	OP69215	EP3331
Run #2							

Run #	Initial Weight	Final Volume
Run #1	33.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	30	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	48	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	50	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	600	37	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	600	37	ug/kg	
95-48-7	2-Methylphenol	ND	60	34	ug/kg	
	3&4-Methylphenol	ND	60	38	ug/kg	
88-75-5	2-Nitrophenol	ND	150	32	ug/kg	
100-02-7	4-Nitrophenol	ND	300	51	ug/kg	
87-86-5	Pentachlorophenol	ND	300	51	ug/kg	
108-95-2	Phenol	ND	60	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	35	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	28	ug/kg	
83-32-9	Acenaphthene	ND	30	8.7	ug/kg	
208-96-8	Acenaphthylene	ND	30	9.6	ug/kg	
98-86-2	Acetophenone	ND	150	5.3	ug/kg	
120-12-7	Anthracene	ND	30	11	ug/kg	
1912-24-9	Atrazine	ND	150	5.9	ug/kg	
56-55-3	Benzo(a)anthracene	15.1	30	9.8	ug/kg	J
50-32-8	Benzo(a)pyrene	16.2	30	9.2	ug/kg	J
205-99-2	Benzo(b)fluoranthene	16.8	30	10	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	12.2	30	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	30	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	60	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	60	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	60	3.5	ug/kg	
100-52-7	Benzaldehyde	ND	150	6.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	60	9.3	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.6	ug/kg	
86-74-8	Carbazole	ND	60	14	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	60	9.5	ug/kg	
218-01-9	Chrysene	16.5	30	10	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	60	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	60	9.0	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	60	8.9	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	60	9.0	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	60	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	60	11	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	150	7.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	30	10	ug/kg	
132-64-9	Dibenzofuran	ND	60	8.9	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	60	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	60	15	ug/kg	
84-66-2	Diethyl phthalate	ND	60	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	60	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	60	27	ug/kg	
206-44-0	Fluoranthene	23.8	30	13	ug/kg	J
86-73-7	Fluorene	ND	30	9.9	ug/kg	
118-74-1	Hexachlorobenzene	ND	60	9.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	30	8.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	300	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	12.8	30	10	ug/kg	J
78-59-1	Isophorone	ND	60	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	60	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	30	8.2	ug/kg	
98-95-3	Nitrobenzene	ND	60	8.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	60	7.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	ND	30	14	ug/kg	
129-00-0	Pyrene	24.7	30	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		13-110%
4165-62-2	Phenol-d5	70%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	60%		20-123%
4165-60-0	Nitrobenzene-d5	76%		10-110%
321-60-8	2-Fluorobiphenyl	78%		17-110%
1718-51-0	Terphenyl-d14	80%		30-124%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G4655.D	1	10/05/13	RK	09/24/13	OP69228	G6G148
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.63	0.29	ug/kg	
319-84-6	alpha-BHC	ND	0.63	0.19	ug/kg	
319-85-7	beta-BHC	ND	0.63	0.39	ug/kg	
319-86-8	delta-BHC	ND	0.63	0.31	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.63	0.31	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.63	0.23	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.63	0.43	ug/kg	
60-57-1	Dieldrin	ND	0.63	0.25	ug/kg	
72-54-8	4,4' -DDD	3.9	0.63	0.34	ug/kg	
72-55-9	4,4' -DDE	2.8	0.63	0.25	ug/kg	
50-29-3	4,4' -DDT	15.2	0.63	0.31	ug/kg	
72-20-8	Endrin	ND	0.63	0.20	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.63	0.27	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.63	0.33	ug/kg	
959-98-8	Endosulfan-I	ND	0.63	0.24	ug/kg	
33213-65-9	Endosulfan-II	ND	0.63	0.38	ug/kg	
76-44-8	Heptachlor	ND	0.63	0.31	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.63	0.23	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.61	ug/kg	
53494-70-5	Endrin ketone	ND	0.63	0.26	ug/kg	
8001-35-2	Toxaphene	ND	16	7.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		10-147%
877-09-8	Tetrachloro-m-xylene	69%		10-147%
2051-24-3	Decachlorobiphenyl	55%		10-154%
2051-24-3	Decachlorobiphenyl	78%		10-154%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G86696.D	1	09/27/13	RK	09/24/13	OP69227	G2G2789
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	31	8.1	ug/kg	
11104-28-2	Aroclor 1221	ND	31	19	ug/kg	
11141-16-5	Aroclor 1232	ND	31	16	ug/kg	
53469-21-9	Aroclor 1242	ND	31	10	ug/kg	
12672-29-6	Aroclor 1248	ND	31	9.5	ug/kg	
11097-69-1	Aroclor 1254	ND	31	15	ug/kg	
11096-82-5	Aroclor 1260	ND	31	10	ug/kg	
11100-14-4	Aroclor 1268	ND	31	9.2	ug/kg	
37324-23-5	Aroclor 1262	ND	31	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		14-139%
877-09-8	Tetrachloro-m-xylene	86%		14-139%
2051-24-3	Decachlorobiphenyl	68%		10-155%
2051-24-3	Decachlorobiphenyl	79%		10-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-1 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-1	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	98.5
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3100	52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Antimony	< 2.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Arsenic	< 2.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Barium	< 21	21	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Beryllium	< 0.21	0.21	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cadmium	< 0.52	0.52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Calcium	< 520	520	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Chromium	7.5	1.0	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cobalt	< 5.2	5.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Copper	7.0	2.6	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Iron	7790	52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Lead	10.9	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Magnesium	708	520	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Manganese	139	1.6	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Mercury	< 0.033	0.033	mg/kg	1	09/25/13	09/25/13	AA	SW846 7471B ¹ SW846 7471B ³
Nickel	7.5	4.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Potassium	< 1000	1000	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Selenium	< 2.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Silver	< 0.52	0.52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Sodium	< 1000	1000	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Thallium	< 1.0	1.0	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Vanadium	8.0	5.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Zinc	18.9	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴

(1) Instrument QC Batch: MA32222

(2) Instrument QC Batch: MA32291

(3) Prep QC Batch: MP74825

(4) Prep QC Batch: MP74952

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V138152.D	1	09/24/13	OTR	n/a	n/a	VV5946
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.1	ug/kg	J
71-43-2	Benzene	0.47	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	74	ug/kg	
100-41-4	Ethylbenzene	0.93	1.2	0.33	ug/kg	J
76-13-1	Freon 113	ND	6.2	0.53	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	1.2	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	2.5	1.2	0.22	ug/kg	
95-47-6	o-Xylene	0.76	1.2	0.17	ug/kg	J
1330-20-7	Xylene (total)	3.2	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		59-130%
17060-07-0	1,2-Dichloroethane-D4	95%		65-123%
2037-26-5	Toluene-D8	98%		80-124%
460-00-4	4-Bromofluorobenzene	98%		71-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P77912.D	1	09/25/13	AD	09/23/13	OP69215	EP3331
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.8	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	38.9	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	41.6	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	45.0	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	28.1	34	13	ug/kg	J
207-08-9	Benzo(k)fluoranthene	22.0	34	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	16	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	38.4	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	82.5	67	30	ug/kg	
206-44-0	Fluoranthene	69.0	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	27.9	34	12	ug/kg	J
78-59-1	Isophorone	ND	67	9.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.2	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	34.1	34	15	ug/kg	
129-00-0	Pyrene	64.7	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		13-110%
4165-62-2	Phenol-d5	77%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88%		20-123%
4165-60-0	Nitrobenzene-d5	81%		10-110%
321-60-8	2-Fluorobiphenyl	82%		17-110%
1718-51-0	Terphenyl-d14	93%		30-124%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G4656.D	1	10/05/13	RK	09/24/13	OP69228	G6G148
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.33	ug/kg	
5103-71-9	alpha-Chlordane	2.1	0.67	0.25	ug/kg	
5103-74-2	gamma-Chlordane	2.1	0.67	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.26	ug/kg	
72-54-8	4,4' -DDD	0.92	0.67	0.37	ug/kg	
72-55-9	4,4' -DDE	1.4	0.67	0.27	ug/kg	
50-29-3	4,4' -DDT	3.9	0.67	0.33	ug/kg	
72-20-8	Endrin	ND	0.67	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.35	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.40	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.66	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.27	ug/kg	
8001-35-2	Toxaphene	ND	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		10-147%
877-09-8	Tetrachloro-m-xylene	72%		10-147%
2051-24-3	Decachlorobiphenyl	63%		10-154%
2051-24-3	Decachlorobiphenyl	66%		10-154%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G86697.D	1	09/27/13	RK	09/24/13	OP69227	G2G2789
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	9.9	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		14-139%
877-09-8	Tetrachloro-m-xylene	77%		14-139%
2051-24-3	Decachlorobiphenyl	63%		10-155%
2051-24-3	Decachlorobiphenyl	76%		10-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	ISB-2 (0-2 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-2	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	93.9
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7460	52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Antimony	< 2.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Arsenic	3.3	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Barium	26.5	21	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Beryllium	0.31	0.21	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cadmium	< 0.52	0.52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Calcium	912	520	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Chromium	11.2	1.0	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cobalt	< 5.2	5.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Copper	8.5	2.6	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Iron	12100	52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Lead	13.7	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Magnesium	1150	520	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Manganese	176	1.6	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Mercury	< 0.035	0.035	mg/kg	1	09/25/13	09/25/13	AA	SW846 7471B ¹ SW846 7471B ³
Nickel	9.7	4.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Potassium	< 1000	1000	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Selenium	< 2.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Silver	< 0.52	0.52	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Sodium	< 1000	1000	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Thallium	< 1.0	1.0	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Vanadium	14.9	5.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Zinc	27.1	2.1	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴

(1) Instrument QC Batch: MA32222

(2) Instrument QC Batch: MA32291

(3) Prep QC Batch: MP74825

(4) Prep QC Batch: MP74952

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E207904.D	1	10/01/13	DP	n/a	n/a	VE9126
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.4 g	10.0 ml	100 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	740	130	ug/kg	
71-43-2	Benzene	ND	74	8.8	ug/kg	
74-97-5	Bromochloromethane	ND	370	20	ug/kg	
75-27-4	Bromodichloromethane	ND	370	7.8	ug/kg	
75-25-2	Bromoform	ND	370	11	ug/kg	
74-83-9	Bromomethane	ND	370	20	ug/kg	
78-93-3	2-Butanone (MEK)	ND	740	180	ug/kg	
75-15-0	Carbon disulfide	33.8	370	8.7	ug/kg	J
56-23-5	Carbon tetrachloride	ND	370	9.9	ug/kg	
108-90-7	Chlorobenzene	ND	370	8.0	ug/kg	
75-00-3	Chloroethane	ND	370	17	ug/kg	
67-66-3	Chloroform	ND	370	6.1	ug/kg	
74-87-3	Chloromethane	ND	370	14	ug/kg	
110-82-7	Cyclohexane	ND	370	9.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	740	66	ug/kg	
124-48-1	Dibromochloromethane	ND	370	12	ug/kg	
106-93-4	1,2-Dibromoethane	ND	74	9.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	370	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	370	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	370	13	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	370	17	ug/kg	
75-34-3	1,1-Dichloroethane	201	370	10	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	74	10	ug/kg	
75-35-4	1,1-Dichloroethene	ND	370	19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	23.0	370	14	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	60.4	370	18	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	370	11	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	370	10	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	370	11	ug/kg	
123-91-1	1,4-Dioxane	ND	9300	4400	ug/kg	
100-41-4	Ethylbenzene	218	74	20	ug/kg	
76-13-1	Freon 113	ND	370	32	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: SSB (5-8 FT)	Date Sampled: 09/18/13
Lab Sample ID: JB48020-3	Date Received: 09/20/13
Matrix: SO - Soil	Percent Solids: 83.1
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	370	46	ug/kg	
98-82-8	Isopropylbenzene	446	370	5.5	ug/kg	
79-20-9	Methyl Acetate	ND	370	190	ug/kg	
108-87-2	Methylcyclohexane	66.9	370	13	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	74	17	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	370	56	ug/kg	
75-09-2	Methylene chloride	ND	370	94	ug/kg	
100-42-5	Styrene	ND	370	6.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	370	9.8	ug/kg	
127-18-4	Tetrachloroethene	55.7	370	13	ug/kg	J
108-88-3	Toluene	174	74	7.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	370	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	370	10	ug/kg	
71-55-6	1,1,1-Trichloroethane	21.4	370	7.9	ug/kg	J
79-00-5	1,1,2-Trichloroethane	ND	370	13	ug/kg	
79-01-6	Trichloroethene	115	370	13	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	370	22	ug/kg	
75-01-4	Vinyl chloride	ND	370	11	ug/kg	
	m,p-Xylene	143	74	13	ug/kg	
95-47-6	o-Xylene	50.1	74	10	ug/kg	J
1330-20-7	Xylene (total)	193	74	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		59-130%
17060-07-0	1,2-Dichloroethane-D4	84%		65-123%
2037-26-5	Toluene-D8	96%		80-124%
460-00-4	4-Bromofluorobenzene	104%		71-132%

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Report of Analysis

Page 1 of 3

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P77913.D	1	09/25/13	AD	09/23/13	OP69215	EP3331
Run #2	P77980.D	20	09/26/13	JL	09/23/13	OP69215	EP3334

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2	31.0 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	62	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	780	47	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	47	ug/kg	
95-48-7	2-Methylphenol	ND	78	44	ug/kg	
	3&4-Methylphenol	ND	78	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	66	ug/kg	
87-86-5	Pentachlorophenol	ND	390	66	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	71.1	39	14	ug/kg	
1912-24-9	Atrazine	ND	190	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	164	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	83.4	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	175	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	107	39	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	62.4	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	723	78	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	78	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	1010	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	149	78	18	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8270D SW846 3550C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	ND	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	78	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	78	15	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	29.3	39	13	ug/kg	J
132-64-9	Dibenzofuran	ND	78	12	ug/kg	
84-74-2	Di-n-butyl phthalate	56300 ^a	1600	170	ug/kg	
117-84-0	Di-n-octyl phthalate	719	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	9780 ^a	1600	690	ug/kg	
206-44-0	Fluoranthene	390	39	17	ug/kg	
86-73-7	Fluorene	120	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	91.8	39	13	ug/kg	
78-59-1	Isophorone	ND	78	10	ug/kg	
91-57-6	2-Methylnaphthalene	920	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	16	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	1260	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	480	39	18	ug/kg	
129-00-0	Pyrene	354	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	104%	110%	13-110%
4165-62-2	Phenol-d5	41%	106%	15-110%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: SSB (5-8 FT)	Date Sampled: 09/18/13
Lab Sample ID: JB48020-3	Date Received: 09/20/13
Matrix: SO - Soil	Percent Solids: 83.1
Method: SW846 8270D SW846 3550C	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%	81%	20-123%
4165-60-0	Nitrobenzene-d5	67%	56%	10-110%
321-60-8	2-Fluorobiphenyl	62%	93%	17-110%
1718-51-0	Terphenyl-d14	76%	105%	30-124%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8081B SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G4657.D	1	10/05/13	RK	09/24/13	OP69228	G6G148
Run #2	6G4675.D	100	10/05/13	RK	09/24/13	OP69228	G6G148

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.39	ug/kg	
5103-71-9	alpha-Chlordane	2380 ^a	79	29	ug/kg	
5103-74-2	gamma-Chlordane	2850 ^a	79	54	ug/kg	
60-57-1	Dieldrin	1760 ^a	79	31	ug/kg	
72-54-8	4,4' -DDD	ND	0.79	0.43	ug/kg	
72-55-9	4,4' -DDE	ND	0.79	0.32	ug/kg	
50-29-3	4,4' -DDT	ND	0.79	0.39	ug/kg	
72-20-8	Endrin	ND	0.79	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.38	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.29	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.77	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.32	ug/kg	
8001-35-2	Toxaphene	ND	20	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	149% ^c	0% ^b	10-147%
877-09-8	Tetrachloro-m-xylene	345% ^c	0% ^b	10-147%
2051-24-3	Decachlorobiphenyl	65%	0% ^b	10-154%
2051-24-3	Decachlorobiphenyl	333% ^c	0% ^b	10-154%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to matrix interference.

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8082A SW846 3546		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G86843.D	1	09/30/13	RK	09/24/13	OP69227	G2G2792
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	13	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	12	ug/kg	
37324-23-5	Aroclor 1262	ND	39	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	36%		14-139%
877-09-8	Tetrachloro-m-xylene	202% ^a		14-139%
2051-24-3	Decachlorobiphenyl	36%		10-155%
2051-24-3	Decachlorobiphenyl	42%		10-155%

(a) Outside control limits due to matrix interference.

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSB (5-8 FT)	Date Sampled:	09/18/13
Lab Sample ID:	JB48020-3	Date Received:	09/20/13
Matrix:	SO - Soil	Percent Solids:	83.1
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6350	58	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Antimony	< 2.3	2.3	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Arsenic	3.7	2.3	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Barium	40.8	23	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Beryllium	0.23	0.23	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cadmium	< 0.58	0.58	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Calcium	1670	580	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Chromium	11.6	1.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Cobalt	< 5.8	5.8	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Copper	13.9	2.9	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Iron	7730	58	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Lead	59.2	2.3	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Magnesium	985	580	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Manganese	60.3	1.7	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Mercury	34.0	3.6	mg/kg	100	09/25/13	09/25/13	AA	SW846 7471B ¹ SW846 7471B ³
Nickel	9.5	4.6	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Potassium	< 1200	1200	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Selenium	< 2.3	2.3	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Silver	< 0.58	0.58	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Sodium	< 1200	1200	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Thallium	< 1.2	1.2	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Vanadium	12.9	5.8	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴
Zinc	58.5	2.3	mg/kg	1	10/01/13	10/02/13	ND	SW846 6010C ² SW846 3050B ⁴

(1) Instrument QC Batch: MA32222

(2) Instrument QC Batch: MA32291

(3) Prep QC Batch: MP74825

(4) Prep QC Batch: MP74952

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Boiler Order Control #
Accutest Quote #	Accutest Job # JB48020

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name Ca Rich Consultants		Project Name Former Zoe Chemical													
Street Address 17 DuPont Street		Street 1801 Falmouth Ave													
City, State, Zip Plainview Nj 11803		City, State New Hyde Park NY													
Project Contact Jessica Proscia		Billing Information (if different from Report to) Company Name Some													
Phone # (516) 576-8841		Street Address													
Fax #		City													
Samples Name(s) Jessica Proscia		Client Purchase Order #													
Phone #		Attention:													
Project Manager															
Collection															
MED/ID Vial #															
Date															
Time															
Sampled by															
Matrix															
# of bottles															
HCL															
MACH															
HNO3															
H2SO4															
NONE															
DI Water															
MEAN															
ENDORE															
Number of preserved Bottles															
TCL VOCs 8260C															
TCL SVOCs 8270															
Pesticides 8081															
PCBs 8082															
Total TAL Metals 31421B															
LAB USE ONLY															
E81															
H3T6															

Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions	
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other _____ Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____ ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data		☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other _____	
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1 JS		1 Chris Paul	2 Chris Paul		2
3 JS	9/18/13	3 Chris Paul	4 Chris Paul	9/20/13	4
5 JS		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 3.0°C

JB48020: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB48020 **Client:** _____ **Project:** _____
Date / Time Received: 9/20/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security

	Y or N			Y or N	
1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

	Y or N	
1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒

Comments



11/05/13

Technical Report for

C. A. Rich Consultants

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Accutest Job Number: JB50005

Sampling Dates: 10/09/13 - 10/10/13

Report to:

C. A. Rich Consultants

jproscia@carichinc.com

ATTN: Jessica Proscia

Total number of pages in report: **49**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

C. A. Rich Consultants

Job No: JB50005

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB50005-1	10/09/13	09:46 JP	10/11/13	AQ	Ground Water	DGB-4 (55 FT)
JB50005-2	10/09/13	09:55 JP	10/11/13	AQ	Ground Water	DGB-4 (45 FT)
JB50005-3	10/09/13	10:30 JP	10/11/13	AQ	Ground Water	DGB-4 (35 FT)
JB50005-4	10/09/13	13:00 JP	10/11/13	AQ	Ground Water	SGB-2 (30 FT)
JB50005-4F	10/09/13	13:00 JP	10/11/13	AQ	Groundwater Filtered	SGB-2 (30 FT)
JB50005-5	10/10/13	09:11 JP	10/11/13	AQ	Ground Water	DGB-5 (85 FT)
JB50005-6	10/10/13	09:22 JP	10/11/13	AQ	Ground Water	DGB-5 (80 FT)
JB50005-7	10/10/13	09:45 JP	10/11/13	AQ	Ground Water	DGB-5 (70 FT)
JB50005-8	10/10/13	10:15 JP	10/11/13	AQ	Ground Water	DGB-5 (60 FT)
JB50005-9	10/10/13	10:20 JP	10/11/13	AQ	Ground Water	DGB-5 (50 FT)
JB50005-10	10/10/13	10:30 JP	10/11/13	AQ	Ground Water	DGB-5 (40 FT)
JB50005-11	10/10/13	10:45 JP	10/11/13	AQ	Ground Water	DGB-5 (30 FT)
JB50005-11D	10/10/13	11:15 JP	10/11/13	AQ	Water Dup/MSD	DGB-5 MSD (30 FT)



Sample Summary

(continued)

C. A. Rich Consultants

Job No: JB50005

Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB50005-11S	10/10/13	11:00 JP	10/11/13	AQ	Water Matrix Spike	DGB-5 MS (30 FT)
JB50005-12	10/10/13	00:00 JP	10/11/13	AQ	Ground Water	DGB-XX
JB50005-13	10/09/13	13:30 JP	10/11/13	AQ	Field Blank Water	FIELD BLANK 10/9/13
JB50005-14	10/10/13	11:15 JP	10/11/13	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants

Job No JB50005

Site: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park,

Report Date 10/30/2013 4:32:44 P

On 10/11/2013, 12 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB50005 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V2E4337

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50005-11MS, JB50005-11MSD were used as the QC samples indicated.

Matrix: AQ

Batch ID: V2E4343

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50069-1MS, JB50069-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP69857

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP69862

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50064-16MS, JB50064-16MSD, OP69862-MSMSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP69863

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP75431

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49962-2SDL, JB49962-2MS, JB49962-2MSD, JB49962-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Silver, Zinc are outside control limits for sample MP75431-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP75428

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49894-8FMS, JB49894-8FMMSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB50005
Account: C. A. Rich Consultants
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY
Collected: 10/09/13 thru 10/10/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB50005-1 DGB-4 (55 FT)						
Carbon disulfide		0.27 J	2.0	0.18	ug/l	SW846 8260B
Ethylbenzene		0.38 J	1.0	0.21	ug/l	SW846 8260B
Toluene		1.4	1.0	0.44	ug/l	SW846 8260B
JB50005-2 DGB-4 (45 FT)						
Ethylbenzene		0.59 J	1.0	0.21	ug/l	SW846 8260B
Toluene		2.4	1.0	0.44	ug/l	SW846 8260B
m,p-Xylene		0.60 J	1.0	0.40	ug/l	SW846 8260B
o-Xylene		0.33 J	1.0	0.19	ug/l	SW846 8260B
Xylene (total)		0.94 J	1.0	0.19	ug/l	SW846 8260B
JB50005-3 DGB-4 (35 FT)						
Acetone		14.3	10	3.3	ug/l	SW846 8260B
Benzene		0.70 J	1.0	0.28	ug/l	SW846 8260B
Ethylbenzene		0.97 J	1.0	0.21	ug/l	SW846 8260B
Toluene		6.7	1.0	0.44	ug/l	SW846 8260B
m,p-Xylene		1.4	1.0	0.40	ug/l	SW846 8260B
o-Xylene		0.94 J	1.0	0.19	ug/l	SW846 8260B
Xylene (total)		2.4	1.0	0.19	ug/l	SW846 8260B
JB50005-4 SGB-2 (30 FT)						
Chloroform		3.4	1.0	0.25	ug/l	SW846 8260B
Tetrachloroethene		2.0	1.0	0.25	ug/l	SW846 8260B
1,1,1-Trichloroethane		0.54 J	1.0	0.25	ug/l	SW846 8260B
alpha-Chlordane		0.014	0.010	0.0029	ug/l	SW846 8081B
gamma-Chlordane		0.020	0.010	0.0022	ug/l	SW846 8081B
Calcium		18900	5000		ug/l	SW846 6010C
Iron		443	100		ug/l	SW846 6010C
Magnesium		5820	5000		ug/l	SW846 6010C
Manganese		188	15		ug/l	SW846 6010C
Sodium		30100	10000		ug/l	SW846 6010C
JB50005-4F SGB-2 (30 FT)						
Calcium		18800	5000		ug/l	SW846 6010C
Iron		261	100		ug/l	SW846 6010C
Magnesium		6020	5000		ug/l	SW846 6010C
Manganese		243	15		ug/l	SW846 6010C
Sodium		29800	10000		ug/l	SW846 6010C

Summary of Hits

Job Number: JB50005

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 10/09/13 thru 10/10/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB50005-5 DGB-5 (85 FT)						
Carbon disulfide		0.40 J	2.0	0.18	ug/l	SW846 8260B
Toluene		0.75 J	1.0	0.44	ug/l	SW846 8260B
m,p-Xylene		0.55 J	1.0	0.40	ug/l	SW846 8260B
o-Xylene		0.21 J	1.0	0.19	ug/l	SW846 8260B
Xylene (total)		0.77 J	1.0	0.19	ug/l	SW846 8260B
JB50005-6 DGB-5 (80 FT)						
Carbon disulfide		0.38 J	2.0	0.18	ug/l	SW846 8260B
Toluene		0.58 J	1.0	0.44	ug/l	SW846 8260B
JB50005-7 DGB-5 (70 FT)						
Carbon disulfide		0.33 J	2.0	0.18	ug/l	SW846 8260B
Toluene		0.45 J	1.0	0.44	ug/l	SW846 8260B
JB50005-8 DGB-5 (60 FT)						
No hits reported in this sample.						
JB50005-9 DGB-5 (50 FT)						
Carbon disulfide		0.42 J	2.0	0.18	ug/l	SW846 8260B
Tetrachloroethene		0.93 J	1.0	0.25	ug/l	SW846 8260B
Toluene		0.68 J	1.0	0.44	ug/l	SW846 8260B
JB50005-10 DGB-5 (40 FT)						
Tetrachloroethene		2.2	1.0	0.25	ug/l	SW846 8260B
JB50005-11 DGB-5 (30 FT)						
cis-1,2-Dichloroethene		0.66 J	1.0	0.24	ug/l	SW846 8260B
Tetrachloroethene		5.8	1.0	0.25	ug/l	SW846 8260B
Trichloroethene		0.95 J	1.0	0.50	ug/l	SW846 8260B
JB50005-12 DGB-XX						
Acetone		32.5	10	3.3	ug/l	SW846 8260B
Carbon disulfide		0.33 J	2.0	0.18	ug/l	SW846 8260B
Ethylbenzene		0.46 J	1.0	0.21	ug/l	SW846 8260B
Tetrachloroethene		1.9	1.0	0.25	ug/l	SW846 8260B
Toluene		2.4	1.0	0.44	ug/l	SW846 8260B

Summary of Hits

Page 3 of 3

Job Number: JB50005

Account: C. A. Rich Consultants

Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY

Collected: 10/09/13 thru 10/10/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
m,p-Xylene		0.89 J	1.0	0.40	ug/l	SW846 8260B
o-Xylene		0.42 J	1.0	0.19	ug/l	SW846 8260B
Xylene (total)		1.3	1.0	0.19	ug/l	SW846 8260B

JB50005-13 FIELD BLANK 10/9/13

No hits reported in this sample.

JB50005-14 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	DGB-4 (55 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-1	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96112.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.27	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	0.38	1.0	0.21	ug/l	J
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: DGB-4 (55 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-1	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	1.4	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	DGB-4 (45 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-2	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96113.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	0.59	1.0	0.21	ug/l	J
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: DGB-4 (45 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-2	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	2.4	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	0.60	1.0	0.40	ug/l	J
95-47-6	o-Xylene	0.33	1.0	0.19	ug/l	J
1330-20-7	Xylene (total)	0.94	1.0	0.19	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	DGB-4 (35 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-3	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96114.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.3	10	3.3	ug/l	
71-43-2	Benzene	0.70	1.0	0.28	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	0.97	1.0	0.21	ug/l	J
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: DGB-4 (35 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-3	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	6.7	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	1.4	1.0	0.40	ug/l	
95-47-6	o-Xylene	0.94	1.0	0.19	ug/l	J
1330-20-7	Xylene (total)	2.4	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96115.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	3.4	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: SGB-2 (30 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-4	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	2.0	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	0.54	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M98487.D	1	10/21/13	KR	10/15/13	OP69857	EM4014
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		10-110%
4165-62-2	Phenol-d5	32%		10-110%

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	98%		29-139%
4165-60-0	Nitrobenzene-d5	101%		28-131%
321-60-8	2-Fluorobiphenyl	103%		30-121%
1718-51-0	Terphenyl-d14	67%		16-147%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G95299.D	1	10/15/13	RK	10/15/13	OP69862	G1G3141
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0080	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0024	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0018	ug/l	
5103-71-9	alpha-Chlordane	0.014	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	0.020	0.010	0.0022	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0048	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0029	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		14-144%
877-09-8	Tetrachloro-m-xylene	59%		14-144%
2051-24-3	Decachlorobiphenyl	45%		10-128%
2051-24-3	Decachlorobiphenyl	47%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SGB-2 (30 FT)	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-4	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX140758.D	1	10/15/13	JR	10/15/13	OP69863	GXX4796
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		16-140%
877-09-8	Tetrachloro-m-xylene	64%		16-140%
2051-24-3	Decachlorobiphenyl	51%		10-125%
2051-24-3	Decachlorobiphenyl	51%		10-125%

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RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SGB-2 (30 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-4	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	18900	5000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	443	100	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Magnesium	5820	5000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	188	15	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	10/18/13	10/18/13 DP	SW846 7470A ¹	SW846 7470A ³
Nickel	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	30100	10000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA32424

(2) Instrument QC Batch: MA32492

(3) Prep QC Batch: MP75428

(4) Prep QC Batch: MP75431

RL = Reporting Limit

Report of Analysis

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Client Sample ID: SGB-2 (30 FT)	Date Sampled: 10/09/13
Lab Sample ID: JB50005-4F	Date Received: 10/11/13
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	18800	5000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	261	100	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Magnesium	6020	5000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	243	15	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	10/18/13	10/18/13 DP	SW846 7470A ¹	SW846 7470A ³
Nickel	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	29800	10000	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	10/18/13	10/27/13 KK	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA32424

(2) Instrument QC Batch: MA32492

(3) Prep QC Batch: MP75428

(4) Prep QC Batch: MP75431

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	DGB-5 (85 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-5	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96116.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.40	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: DGB-5 (85 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-5	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	0.75	1.0	0.44	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	0.55	1.0	0.40	ug/l	J
95-47-6	o-Xylene	0.21	1.0	0.19	ug/l	J
1330-20-7	Xylene (total)	0.77	1.0	0.19	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (80 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-6	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96236.D	1	10/24/13	TYG	n/a	n/a	V2E4343
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.38	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: DGB-5 (80 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-6	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	0.58	1.0	0.44	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (70 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-7	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96237.D	1	10/24/13	TYG	n/a	n/a	V2E4343
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.33	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: DGB-5 (70 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-7	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	0.45	1.0	0.44	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (60 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-8	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96238.D	1	10/24/13	TYG	n/a	n/a	V2E4343
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: DGB-5 (60 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-8	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (50 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-9	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96239.D	1	10/24/13	TYG	n/a	n/a	V2E4343
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.42	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: DGB-5 (50 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-9	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	0.93	1.0	0.25	ug/l	J
108-88-3	Toluene	0.68	1.0	0.44	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (40 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-10	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96111.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: DGB-5 (40 FT)	Date Sampled: 10/10/13
Lab Sample ID: JB50005-10	Date Received: 10/11/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	2.2	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-5 (30 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-11	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96109.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.66	1.0	0.24	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DGB-5 (30 FT)	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-11	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	5.8	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.95	1.0	0.50	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-XX	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-12	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96110.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	32.5	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	0.33	2.0	0.18	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	0.46	1.0	0.21	ug/l	J
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DGB-XX	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-12	Date Received:	10/11/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	1.9	1.0	0.25	ug/l	
108-88-3	Toluene	2.4	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	0.89	1.0	0.40	ug/l	J
95-47-6	o-Xylene	0.42	1.0	0.19	ug/l	J
1330-20-7	Xylene (total)	1.3	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	89%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FIELD BLANK 10/9/13	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-13	Date Received:	10/11/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96117.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	FIELD BLANK 10/9/13	Date Sampled:	10/09/13
Lab Sample ID:	JB50005-13	Date Received:	10/11/13
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	89%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-14	Date Received:	10/11/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96118.D	1	10/21/13	TYG	n/a	n/a	V2E4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	73	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

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Report of Analysis

Page 2 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	10/10/13
Lab Sample ID:	JB50005-14	Date Received:	10/11/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former Zoe Chemical Site, 1801 Falmouth Avenue, New Hyde Park, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

WFB
G-W

FED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest Job # JB50005

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes		
Company Name Ca Rich Consultants Street Address 17 DuPont Street City Plainville NY 11803 State NY Zip 11803 Project Contact Jessica Proscia Phone # (516) 526-8944 Sample Name(s) Jessica Proscia		Project Name Former Zoe Chemical Street 1801 Falmouth Ave City New Hyde Park NY State NY Zip 11040 Project # Client Purchase Order # Project Manager Attention: 		Billing Information (if different from Report to) Company Name Street Address City State Zip 												Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquids AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH4	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY		
1	DGB-4 (55 ft)		10/9/13	9:46	JP	GW	3											
2	DGB-4 (45 ft)		10/9/13	9:55	JP	GW	3											
3	DGB-4 (35 ft)		10/9/13	10:30	JP	GW	3											
4	DGB-2 (30 ft)		10/9/13	1:00	JP	GW	3											
5	DGB-5 (25 ft)		10/10/13	9:11	JP	GW	3										B2E	
6	DGB-5 (80 ft)		10/10/13	9:20	JP	GW	3										A13	
7	DGB-5 (70 ft)		10/10/13	9:45	JP	GW	3										2260	
8	DGB-5 (60 ft)		10/10/13	10:15	JP	GW	3											
9	DGB-5 (50 ft)		10/10/13	10:20	JP	GW	3											
10	DGB-5 (40 ft)		10/10/13	10:30	JP	GW	3											
11	DGB-5 (30 ft)		10/10/13	10:45	JP	GW	3											
12	DGB-5 MS (30 ft)		10/10/13	11:00	JP	GW	3											
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data												Comments / Special Instructions		
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other _____ Emergency & Rush TIA data available VIA Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by: JP Date Time: 10/11/13 11:20		Received By: Chris Lant Date Time: 10/11/13 17:10		Relinquished by: Chris Lant Date Time: 10/11/13 17:10		Received By: [Signature] Date Time: 10/11/13 17:10		Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☒ On Ice ☐ Cooler Temp. 4.0°C										

2A

AS FG

JB50005: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB50005 **Client:** _____ **Project:** _____
Date / Time Received: 10/11/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (4/4); 0

Cooler Security

<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

<u>Y or N</u>
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: <u>Ice (Bag)</u>
4. No. Coolers: <u>1</u>

Quality Control Preservation

<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler: ☐ ☒ ☐	
2. Trip Blank listed on COC: ☐ ☒ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☒ ☐ ☐	

Sample Integrity - Documentation

<u>Y or N</u>
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

<u>Y or N</u>
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: <u>Intact</u>

Sample Integrity - Instructions

<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐ ☒	
5. Filtering instructions clear: ☐ ☐ ☒	

Comments

Wednesday, May 08, 2013

Jessica Proscia
CA Rich Consultants Inc.
17 Dupont Street
Plainview, NY 11803
TEL: (516) 576-8844
FAX (516) 576-0093

RE: Former Zoe Chemical, New Hyde Park, NY

Order No.: 1304192

Dear Jessica Proscia:

American Analytical Laboratories, LLC. received 3 sample(s) on 4/29/2013 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 42 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,


Lori Beyer
Lab Director

American Analytical Laboratories, LLC.**Date:** 08-May-13

CLIENT: CA Rich Consultants Inc.
Project: Former Zoe Chemical, New Hyde Park, NY
Lab Order: 1304192

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1304192-01A	MW-1/2	4/25/2013 1:20:00 PM	4/29/2013
1304192-02A	MW-1	4/25/2013 1:25:00 PM	4/29/2013
1304192-03A	MW-2	4/25/2013 1:30:00 PM	4/29/2013

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

[illegible]

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **CA RICH**

Date and Time Receive **4/29/2013 10:14:13 AM**

Work Order Number **1304192**

RcptNo: 1

Received by **CF**

COC_ID:

CoolerID:

Checklist completed by

Signature *CF*

Date *4/29/13*

Reviewed by

Initials *Jo B*

Date *4/29/13*

Matrix:

Carrier name Courier

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Presen ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Presen ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☐	No ☒	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐

Adjusted? _____

Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be _____

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments:

Samples were not collected according to Method 5035A

Corrective Action _____

American Analytical Laboratories, LLC.

Date: 08-May-13

CLIENT: CA Rich Consultants Inc.
Project: Former Zoe Chemical, New Hyde Park, NY
Lab Order: 1304192

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report.

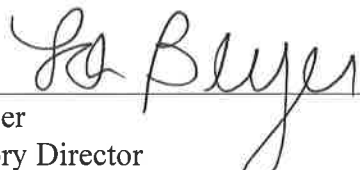
All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers.

Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A via the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method.

Volatile LCS are analyzed with preservatives - HCL/NaHSO₄/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical reports is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.


Lori Beyer
Laboratory Director

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-1/2

Lab Order: 1304192

Collection Date: 4/25/2013 1:20:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-01A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TCLP MERCURY			SW7471B		SW1311		Analyst: JP
Mercury	U	0.0005	0.0200		mg/L	1	4/30/2013 10:26:49 AM
PERCENT MOISTURE			D2216				Analyst: CF
Percent Moisture	38.4	0	0		wt%	1	4/30/2013
TCLP METALS			SW6010C		SW1311		Analyst: JP
Arsenic	U	0.01	0.0500		mg/L	1	4/30/2013 10:53:58 AM
Barium	U	1	5.00		mg/L	1	4/30/2013 10:53:58 AM
Cadmium	U	0.005	0.0500		mg/L	1	4/30/2013 10:53:58 AM
Chromium	U	0.005	0.0500		mg/L	1	4/30/2013 10:53:58 AM
Lead	0.0200	0.005	0.0500	J	mg/L	1	4/30/2013 10:53:58 AM
Selenium	U	0.01	0.0500		mg/L	1	4/30/2013 10:53:58 AM
Silver	U	0.005	0.0500		mg/L	1	4/30/2013 10:53:58 AM
IGNITABILITY/FLASHPOINT SW-846 1020			SW1020				Analyst: STP
Ignitability	>	70	140		°F	1	4/30/2013
SOIL PH MEASURED IN WATER			SW9045D				Analyst: PAV
pH	6.90	0.5	1.00		pH Units	1	4/29/2013 1:30:00 PM
TEMPERATURE			M2550 B				Analyst: PAV
Temp at which pH was measured	16.8	0	0	N	°C	1	4/29/2013 1:30:00 PM
REACTIVE CYANIDE			SW7.3.3.2				Analyst: STP
Reactive Cyanide	U	0.08	0.162		mg/Kg-dry	1	5/6/2013 12:36:09 PM
REACTIVE SULFIDE			SW7.3.4.2				Analyst: STP
Reactive Sulfide	U	1.62	3.25		mg/Kg-dry	1	5/6/2013

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-1

Lab Order: 1304192

Collection Date: 4/25/2013 1:25:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-02A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE							
Percent Moisture	36.6	0	0		wt%	1	Analyst: CF 4/30/2013
VOLATILE SW-846 METHOD 8260							
					D2216		
					SW8260C		
					SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1,1-Trichloroethane	4.6	1.59	7.9	J	µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1,2,2-Tetrachloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1,2-Trichloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1-Dichloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1-Dichloroethene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,1-Dichloropropene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2,3-Trichlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2,3-Trichloropropane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2,4,5-Tetramethylbenzene	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2,4-Trichlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2,4-Trimethylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2-Dibromo-3-chloropropane	U	3.17	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2-Dibromoethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2-Dichlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2-Dichloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,2-Dichloropropane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,3,5-Trimethylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,3-Dichlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,3-dichloropropane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,4-Dichlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
1,4-Dioxane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
2,2-Dichloropropane	U	1.59	7.9	C	µg/Kg-dry	1	4/29/2013 5:49:00 PM
2-Butanone	U	7.93	16		µg/Kg-dry	1	4/29/2013 5:49:00 PM
2-Chloroethyl vinyl ether	U	1.59	7.9	C	µg/Kg-dry	1	4/29/2013 5:49:00 PM
2-Chlorotoluene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
2-Hexanone	U	7.93	16		µg/Kg-dry	1	4/29/2013 5:49:00 PM
2-Propanol	U	3.17	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
4-Chlorotoluene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-1

Lab Order: 1304192

Collection Date: 4/25/2013 1:25:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-02A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
4-Isopropyltoluene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
4-Methyl-2-pentanone	U	7.93	16		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Acetone	U	7.93	16		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Acrolein	U	19.8	40	C	µg/Kg-dry	1	4/29/2013 5:49:00 PM
Acrylonitrile	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Benzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Bromobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Bromochloromethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Bromodichloromethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Bromoform	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Bromomethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Carbon disulfide	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Carbon tetrachloride	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Chlorobenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Chlorodifluoromethane	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
Chloroethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Chloroform	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Chloromethane	U	1.59	7.9	C	µg/Kg-dry	1	4/29/2013 5:49:00 PM
cis-1,2-Dichloroethene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
cis-1,3-Dichloropropene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Dibromochloromethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Dibromomethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Dichlorodifluoromethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Diisopropyl ether	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
Ethanol	U	19.8	40	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
Ethylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Freon-114	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
Hexachlorobutadiene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Isopropylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
m,p-Xylene	U	3.17	16		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Methyl Acetate	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Methyl tert-butyl ether	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Methylene chloride	5.9	1.59	7.9	JBC	µg/Kg-dry	1	4/29/2013 5:49:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-1

Lab Order: 1304192

Collection Date: 4/25/2013 1:25:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-02A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
Naphthalene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
n-Butylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
n-Propylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
o-Xylene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
p-Diethylbenzene	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
p-Ethyltoluene	U	1.59	7.9	N	µg/Kg-dry	1	4/29/2013 5:49:00 PM
sec-Butylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Styrene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
t-Butyl alcohol	U	1.59	7.9	C	µg/Kg-dry	1	4/29/2013 5:49:00 PM
tert-Butylbenzene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Tetrachloroethene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Toluene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
trans-1,2-Dichloroethene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
trans-1,3-Dichloropropene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Trichloroethene	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Trichlorofluoromethane	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Vinyl acetate	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Vinyl chloride	U	1.59	7.9		µg/Kg-dry	1	4/29/2013 5:49:00 PM
Surr: 4-Bromofluorobenzene	63.5	0	40-140		%REC	1	4/29/2013 5:49:00 PM
Surr: Dibromofluoromethane	108	0	21-140		%REC	1	4/29/2013 5:49:00 PM
Surr: Toluene-d8	76.6	0	35-137		%REC	1	4/29/2013 5:49:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-2

Lab Order: 1304192

Collection Date: 4/25/2013 1:30:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-03A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE							
Percent Moisture	13.6	0	0		wt%	1	Analyst: CF 4/30/2013
VOLATILE SW-846 METHOD 8260							
			D2216				Analyst: LA
			SW8260C				
			SW5035A				
1,1,1,2-Tetrachloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1,1-Trichloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1,2,2-Tetrachloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1,2-Trichloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1-Dichloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1-Dichloroethene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,1-Dichloropropene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2,3-Trichlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2,3-Trichloropropane	U	1.13	5.6	C	µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2,4,5-Tetramethylbenzene	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2,4-Trichlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2,4-Trimethylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2-Dibromo-3-chloropropane	U	2.25	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2-Dibromoethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2-Dichlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2-Dichloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,2-Dichloropropane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,3,5-Trimethylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,3-Dichlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,3-dichloropropane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,4-Dichlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
1,4-Dioxane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
2,2-Dichloropropane	U	1.13	5.6	C	µg/Kg-dry	1	4/30/2013 12:25:00 PM
2-Butanone	U	5.64	11		µg/Kg-dry	1	4/30/2013 12:25:00 PM
2-Chloroethyl vinyl ether	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
2-Chlorotoluene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
2-Hexanone	U	5.64	11	C	µg/Kg-dry	1	4/30/2013 12:25:00 PM
2-Propanol	U	2.25	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
4-Chlorotoluene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-2

Lab Order: 1304192

Collection Date: 4/25/2013 1:30:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-03A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
4-Isopropyltoluene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
4-Methyl-2-pentanone	U	5.64	11		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Acetone	U	5.64	11		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Acrolein	U	14.1	28	C	µg/Kg-dry	1	4/30/2013 12:25:00 PM
Acrylonitrile	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Benzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Bromobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Bromochloromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Bromodichloromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Bromoform	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Bromomethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Carbon disulfide	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Carbon tetrachloride	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Chlorobenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Chlorodifluoromethane	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
Chloroethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Chloroform	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Chloromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
cis-1,2-Dichloroethene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
cis-1,3-Dichloropropene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Dibromochloromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Dibromomethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Dichlorodifluoromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Diisopropyl ether	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
Ethanol	U	14.1	28	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
Ethylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Freon-114	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
Hexachlorobutadiene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Isopropylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
m,p-Xylene	U	2.25	11		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Methyl Acetate	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Methyl tert-butyl ether	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Methylene chloride	6.0	1.13	5.6	BC	µg/Kg-dry	1	4/30/2013 12:25:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 08-May-13

ELAP ID : 11418

CLIENT: CA Rich Consultants Inc.

Client Sample ID: MW-2

Lab Order: 1304192

Collection Date: 4/25/2013 1:30:00 PM

Project: Former Zoe Chemical, New Hyde Park, NY

Matrix: SOIL

Lab ID: 1304192-03A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C	SW5035A	Analyst: LA		
Naphthalene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
n-Butylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
n-Propylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
o-Xylene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
p-Diethylbenzene	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
p-Ethyltoluene	U	1.13	5.6	N	µg/Kg-dry	1	4/30/2013 12:25:00 PM
sec-Butylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Styrene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
t-Butyl alcohol	U	1.13	5.6	C	µg/Kg-dry	1	4/30/2013 12:25:00 PM
tert-Butylbenzene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Tetrachloroethene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Toluene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
trans-1,2-Dichloroethene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
trans-1,3-Dichloropropene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Trichloroethene	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Trichlorofluoromethane	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Vinyl acetate	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Vinyl chloride	U	1.13	5.6		µg/Kg-dry	1	4/30/2013 12:25:00 PM
Surr: 4-Bromofluorobenzene	87.2	0	40-140		%REC	1	4/30/2013 12:25:00 PM
Surr: Dibromofluoromethane	86.4	0	21-140		%REC	1	4/30/2013 12:25:00 PM
Surr: Toluene-d8	92.8	0	35-137		%REC	1	4/30/2013 12:25:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	40	5.0	50.00	0	79.8	40	125				
1,1,2,2-Tetrachloroethane	53	5.0	50.00	0	106	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.9	40	124				
1,1-Dichloroethane	45	5.0	50.00	0	90.9	33	134				
1,1-Dichloroethene	37	5.0	50.00	0	73.9	30	141				
1,2-Dichlorobenzene	44	5.0	50.00	0	87.8	33	126				
1,2-Dichloroethane	41	5.0	50.00	0	82.2	36	131				
1,2-Dichloropropane	40	5.0	50.00	0	80.3	38	131				
1,3-Dichlorobenzene	46	5.0	50.00	0	92.9	31	130				
1,4-Dichlorobenzene	42	5.0	50.00	0	84.8	33	121				
2-Chloroethyl vinyl ether	12	5.0	50.00	0	23.4	36	138				SC
Benzene	38	5.0	50.00	0	75.7	36	126				
Bromodichloromethane	41	5.0	50.00	0	82.6	38	125				
Bromoform	52	5.0	50.00	0	105	36	131				
Bromomethane	22	5.0	50.00	0	44.1	23	135				
Carbon tetrachloride	41	5.0	50.00	0	82.7	37	130				
Chlorobenzene	42	5.0	50.00	0	84.4	41	123				
Chloroethane	25	5.0	50.00	0	49.1	20	128				
Chloroform	42	5.0	50.00	0	83.0	39	125				C
Chloromethane	18	5.0	50.00	0	36.1	33	143				
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.7	34	125				
Dibromochloromethane	42	5.0	50.00	0	83.8	36	125				
Ethylbenzene	40	5.0	50.00	0	79.8	42	124				
Methylene chloride	22	5.0	50.00	0	43.7	33	135				
Tetrachloroethene	38	5.0	50.00	0	75.7	30	121				BC
Toluene	40	5.0	50.00	0	79.2	43	121				
trans-1,2-Dichloroethene	35	5.0	50.00	0	70.6	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.4	33	120				
Trichloroethene	42	5.0	50.00	0	84.1	40	124				
Vinyl chloride	23	5.0	50.00	0	45.3	40	146				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	50		50.00		101	40	140				
Surr: Dibromofluoromethane	50		50.00		99.0	21	140				
Surr: Toluene-d8	49		50.00		98.4	35	137				

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,1-Dichloropropene	U	5.0									
1,2,3-Trichlorobenzene	U	5.0									
1,2,3-Trichloropropane	U	5.0									
1,2,4,5-Tetramethylbenzene	U	5.0									
1,2,4-Trichlorobenzene	U	5.0									
1,2,4-Trimethylbenzene	U	5.0									
1,2-Dibromo-3-chloropropane	U	5.0									
1,2-Dibromoethane	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,2-Dichloroethane	U	5.0									
1,2-Dichloropropane	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,3-dichloropropane	U	5.0									
1,4-Dichlorobenzene	U	5.0									
1,4-Dioxane	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	U	5.0									C
2-Butanone	U	10									
2-Chloroethyl vinyl ether	U	5.0									C
2-Chlorotoluene	U	5.0									
2-Hexanone	U	10									
2-Propanol	U	5.0									
4-Chlorotoluene	U	5.0									
4-Isopropyltoluene	U	5.0									
4-Methyl-2-pentanone	U	10									
Acetone	11	10									C
Acrolein	U	25									
Acrylonitrile	U	5.0									
Benzene	U	5.0									
Bromobenzene	U	5.0									
Bromochloromethane	U	5.0									
Bromodichloromethane	U	5.0									
Bromoform	U	5.0									
Bromomethane	U	5.0									
Carbon disulfide	U	5.0									
Carbon tetrachloride	U	5.0									
Chlorobenzene	U	5.0									
Chlorodifluoromethane	U	5.0									
Chloroethane	U	5.0									
Chloroform	U	5.0									
Chloromethane	U	5.0									C
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte

LOD Limit of Detection

S Spike Recovery outside accepted recovery limits

H Holding time was exceeded

LOQ Limit of Quantitation

U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethanol	U	25									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	2.9	5.0									JC
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									C
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.4	40	140				
Surr: Dibromofluoromethane	51		50.00		102	21	140				
Surr: Toluene-d8	49		50.00		97.5	35	137				
Ethyl acetate	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68388						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 975939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Isopropyl acetate	U	5.0									
n-Amyl acetate	U	5.0									
n-Butyl acetate	U	5.0									
n-Propyl acetate	U	5.0									

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68410						
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	40	5.0	50.00	0	79.8	40	125				
1,1,2,2-Tetrachloroethane	53	5.0	50.00	0	106	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.9	40	124				
1,1-Dichloroethane	45	5.0	50.00	0	90.9	33	134				
1,1-Dichloroethene	37	5.0	50.00	0	73.9	30	141				
1,2-Dichlorobenzene	44	5.0	50.00	0	87.8	33	126				
1,2-Dichloroethane	41	5.0	50.00	0	82.2	36	131				
1,2-Dichloropropane	40	5.0	50.00	0	80.3	38	131				
1,3-Dichlorobenzene	46	5.0	50.00	0	92.9	31	130				
1,4-Dichlorobenzene	42	5.0	50.00	0	84.8	33	121				
2-Chloroethyl vinyl ether	12	5.0	50.00	0	23.4	36	138				SC
Benzene	38	5.0	50.00	0	75.7	36	126				
Bromodichloromethane	41	5.0	50.00	0	82.6	38	125				
Bromoform	52	5.0	50.00	0	105	36	131				
Bromomethane	22	5.0	50.00	0	44.1	23	135				
Carbon tetrachloride	41	5.0	50.00	0	82.7	37	130				
Chlorobenzene	42	5.0	50.00	0	84.4	41	123				
Chloroethane	25	5.0	50.00	0	49.1	20	128				
Chloroform	42	5.0	50.00	0	83.0	39	125				
Chloromethane	18	5.0	50.00	0	36.1	33	143				C
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.7	34	125				
Dibromochloromethane	42	5.0	50.00	0	83.8	36	125				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035		SampType: LCS		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68410	
Client ID: LCSS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 976138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	40	5.0	50.00	0	79.8	42	124				BC
Methylene chloride	22	5.0	50.00	0	43.7	33	135				
Tetrachloroethene	38	5.0	50.00	0	75.7	30	121				
Toluene	40	5.0	50.00	0	79.2	43	121				
trans-1,2-Dichloroethene	35	5.0	50.00	0	70.6	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.4	33	120				
Trichloroethene	42	5.0	50.00	0	84.1	40	124				
Vinyl chloride	23	5.0	50.00	0	45.3	40	146				
Surr: 4-Bromofluorobenzene	50		50.00		101	40	140				
Surr: Dibromofluoromethane	50		50.00		99.0	21	140				
Surr: Toluene-d8	49		50.00		98.4	35	137				

Sample ID: MB-40035		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68410			
Client ID: PBS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 976139			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		U		5.0									
1,1,1-Trichloroethane		U		5.0									
1,1,2,2-Tetrachloroethane		U		5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane		U		5.0									
1,1,2-Trichloroethane		U		5.0									
1,1-Dichloroethane		U		5.0									
1,1-Dichloroethene		U		5.0									
1,1-Dichloropropene		U		5.0									
1,2,3-Trichlorobenzene		U		5.0									
1,2,3-Trichloropropane		U		5.0									
1,2,4,5-Tetramethylbenzene		U		5.0									
1,2,4-Trichlorobenzene		U		5.0									
1,2,4-Trimethylbenzene		U		5.0									
1,2-Dibromo-3-chloropropane		U		5.0									
1,2-Dibromoethane		U		5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68410		
Client ID: PBS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 976139		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene		U	5.0									
1,2-Dichloroethane		U	5.0									
1,2-Dichloropropane		U	5.0									
1,3,5-Trimethylbenzene		U	5.0									
1,3-Dichlorobenzene		U	5.0									
1,3-dichloropropane		U	5.0									
1,4-Dichlorobenzene		U	5.0									
1,4-Dioxane		U	5.0									
2,2-Dichloropropane		U	5.0									C
2-Butanone		U	10									
2-Chloroethyl vinyl ether		U	5.0									C
2-Chlorotoluene		U	5.0									
2-Hexanone		U	10									
2-Propanol		U	5.0									
4-Chlorotoluene		U	5.0									
4-Isopropyltoluene		U	5.0									
4-Methyl-2-pentanone		U	10									
Acetone		11	10									C
Acrolein		U	25									
Acrylonitrile		U	5.0									
Benzene		U	5.0									
Bromobenzene		U	5.0									
Bromochloromethane		U	5.0									
Bromodichloromethane		U	5.0									
Bromoform		U	5.0									
Bromomethane		U	5.0									
Carbon disulfide		U	5.0									
Carbon tetrachloride		U	5.0									
Chlorobenzene		U	5.0									
Chlorodifluoromethane		U	5.0									
Chloroethane		U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68410						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	U	5.0									C
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									
Ethanol	U	25									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	2.9	5.0									
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
JC											
C											

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192
Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68410						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.4	40	140				
Surr: Dibromofluoromethane	51		50.00		102	21	140				
Surr: Toluene-d8	49		50.00		97.5	35	137				
Ethyl acetate	U	5.0									
Isopropyl acetate	U	5.0									
n-Amyl acetate	U	5.0									
n-Butyl acetate	U	5.0									
n-Propyl acetate	U	5.0									

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_		Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68433					
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C		SW5035A	Analysis Date: 4/29/2013	SeqNo: 976423					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	40	5.0	50.00	0	79.8	40	125				
1,1,2,2-Tetrachloroethane	53	5.0	50.00	0	106	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.9	40	124				
1,1-Dichloroethane	45	5.0	50.00	0	90.9	33	134				
1,1,1-Dichloroethene	37	5.0	50.00	0	73.9	30	141				
1,2-Dichlorobenzene	44	5.0	50.00	0	87.8	33	126				
1,2-Dichloroethane	41	5.0	50.00	0	82.2	36	131				
1,2-Dichloropropane	40	5.0	50.00	0	80.3	38	131				
1,3-Dichlorobenzene	46	5.0	50.00	0	92.9	31	130				
1,4-Dichlorobenzene	42	5.0	50.00	0	84.8	33	121				
2-Chloroethyl vinyl ether	12	5.0	50.00	0	23.4	36	138				SC
Benzene	38	5.0	50.00	0	75.7	36	126				
Bromodichloromethane	41	5.0	50.00	0	82.6	38	125				
Bromoform	52	5.0	50.00	0	105	36	131				

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation	
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected	

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68433						
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	22	5.0	50.00	0	44.1	23	135				
Carbon tetrachloride	41	5.0	50.00	0	82.7	37	130				
Chlorobenzene	42	5.0	50.00	0	84.4	41	123				
Chloroethane	25	5.0	50.00	0	49.1	20	128				
Chloroform	42	5.0	50.00	0	83.0	39	125				
Chloromethane	18	5.0	50.00	0	36.1	33	143				C
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.7	34	125				
Dibromochloromethane	42	5.0	50.00	0	83.8	36	125				
Ethylbenzene	40	5.0	50.00	0	79.8	42	124				
Methylene chloride	22	5.0	50.00	0	43.7	33	135				BC
Tetrachloroethene	38	5.0	50.00	0	75.7	30	121				
Toluene	40	5.0	50.00	0	79.2	43	121				
trans-1,2-Dichloroethene	35	5.0	50.00	0	70.6	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.4	33	120				
Trichloroethene	42	5.0	50.00	0	84.1	40	124				
Vinyl chloride	23	5.0	50.00	0	45.3	40	146				
Surr: 4-Bromofluorobenzene	50		50.00		101	40	140				
Surr: Dibromofluoromethane	50		50.00		99.0	21	140				
Surr: Toluene-d8	49		50.00		98.4	35	137				

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68433						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68433		
Client ID: PBS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 976424		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene		U	5.0									
1,2,3-Trichlorobenzene		U	5.0									
1,2,3-Trichloropropane		U	5.0									
1,2,4,5-Tetramethylbenzene		U	5.0									
1,2,4-Trichlorobenzene		U	5.0									
1,2,4-Trimethylbenzene		U	5.0									
1,2-Dibromo-3-chloropropane		U	5.0									
1,2-Dibromoethane		U	5.0									
1,2-Dichlorobenzene		U	5.0									
1,2-Dichloroethane		U	5.0									
1,2-Dichloropropane		U	5.0									
1,3,5-Trimethylbenzene		U	5.0									
1,3-Dichlorobenzene		U	5.0									
1,3-dichloropropane		U	5.0									
1,4-Dichlorobenzene		U	5.0									
1,4-Dioxane		U	5.0									C
2,2-Dichloropropane		U	5.0									
2-Butanone		U	10									
2-Chloroethyl vinyl ether		U	5.0									C
2-Chlorotoluene		U	5.0									
2-Hexanone		U	10									
2-Propanol		U	5.0									
4-Chlorotoluene		U	5.0									
4-Isopropyltoluene		U	5.0									
4-Methyl-2-pentanone		U	10									
Acetone		11	10									
Acrolein		U	25									C
Acrylonitrile		U	5.0									
Benzene		U	5.0									
Bromobenzene		U	5.0									
Bromochloromethane		U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68433	
Client ID: PBS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 976424	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	U	5.0									C
Bromoform	U	5.0									
Bromomethane	U	5.0									
Carbon disulfide	U	5.0									
Carbon tetrachloride	U	5.0									
Chlorobenzene	U	5.0									
Chlorodifluoromethane	U	5.0									
Chloroethane	U	5.0									
Chloroform	U	5.0									
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									
Ethanol	U	25									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	2.9	5.0									
Naphthalene	U	5.0								JC	
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									

JC

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68433						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 976424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.4	40	140				
Surr: Dibromofluoromethane	51		50.00		102	21	140				
Surr: Toluene-d8	49		50.00		97.5	35	137				
Ethyl acetate	U	5.0									
Isopropyl acetate	U	5.0									
n-Amyl acetate	U	5.0									
n-Butyl acetate	U	5.0									
n-Propyl acetate	U	5.0									

C

Sample ID: LCS-40056	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/30/2013	RunNo: 68455						
Client ID: LCSS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013	SeqNo: 976693						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	38	5.0	50.00	0	75.6	40	125				
1,1,2,2-Tetrachloroethane	47	5.0	50.00	0	94.0	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.8	40	124				
1,1-Dichloroethane	42	5.0	50.00	0	84.8	33	134				
1,1-Dichloroethene	35	5.0	50.00	0	70.7	30	141				
1,2-Dichlorobenzene	42	5.0	50.00	0	83.4	33	126				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40056	SampType: LCS	TestCode: DryFull8260_ Units: µg/Kg			Prep Date: 4/30/2013		RunNo: 68455				
Client ID: LCSS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013		SeqNo: 976693					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	40	5.0	50.00	0	79.6	36	131				
1,2-Dichloropropane	39	5.0	50.00	0	78.1	38	131				
1,3-Dichlorobenzene	44	5.0	50.00	0	87.1	31	130				
1,4-Dichlorobenzene	40	5.0	50.00	0	79.9	33	121				
2-Chloroethyl vinyl ether	U	5.0	50.00	0	0	36	138				S
Benzene	36	5.0	50.00	0	71.7	36	126				
Bromodichloromethane	40	5.0	50.00	0	80.2	38	125				
Bromoform	47	5.0	50.00	0	93.1	36	131				
Bromomethane	20	5.0	50.00	0	40.0	23	135				
Carbon tetrachloride	38	5.0	50.00	0	75.2	37	130				
Chlorobenzene	42	5.0	50.00	0	83.9	41	123				
Chloroethane	26	5.0	50.00	0	51.8	20	128				
Chloroform	40	5.0	50.00	0	79.6	39	125				
Chloromethane	18	5.0	50.00	0	35.3	33	143				
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.4	34	125				
Dibromochloromethane	40	5.0	50.00	0	79.4	36	125				
Ethylbenzene	41	5.0	50.00	0	81.8	42	124				
Methylene chloride	22	5.0	50.00	0	44.0	33	135				
Tetrachloroethene	35	5.0	50.00	0	70.0	30	121				BC
Toluene	39	5.0	50.00	0	77.4	43	121				
trans-1,2-Dichloroethene	34	5.0	50.00	0	67.8	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.3	33	120				
Trichloroethene	40	5.0	50.00	0	79.6	40	124				
Vinyl chloride	24	5.0	50.00	0	47.3	40	146				
Surr: 4-Bromofluorobenzene	52		50.00		104	40	140				
Surr: Dibromofluoromethane	50		50.00		99.3	21	140				
Surr: Toluene-d8	51		50.00		101	35	137				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40056	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/30/2013	RunNo: 68455						
Client ID: PBS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013	SeqNo: 976694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,1-Dichloropropene	U	5.0									
1,2,3-Trichlorobenzene	U	5.0									
1,2,3-Trichloropropane	U	5.0									
1,2,4,5-Tetramethylbenzene	U	5.0									C
1,2,4-Trichlorobenzene	U	5.0									
1,2,4-Trimethylbenzene	U	5.0									
1,2-Dibromo-3-chloropropane	U	5.0									
1,2-Dibromoethane	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,2-Dichloroethane	U	5.0									
1,2-Dichloropropane	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,3-dichloropropane	U	5.0									
1,4-Dichlorobenzene	U	5.0									
1,4-Dioxane	U	5.0									
2,2-Dichloropropane	U	5.0									C
2-Butanone	U	10									
2-Chloroethyl vinyl ether	U	5.0									
2-Chlorotoluene	U	5.0									
2-Hexanone	U	10									C
2-Propanol	U	5.0									
4-Chlorotoluene	U	5.0									
4-Isopropyltoluene	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
H Holding time was exceeded
LOD Limit of Detection
LOQ Limit of Quantitation
S Spike Recovery outside accepted recovery limits
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40056		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/30/2013		RunNo: 68455	
Client ID: PBS		Batch ID: 40056		TestNo: SW8260C		SW5035A		Analysis Date: 4/30/2013		SeqNo: 976694	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	U	10									C
Acetone	U	10									
Acrolein	U	25									
Acrylonitrile	U	5.0									
Benzene	U	5.0									
Bromobenzene	U	5.0									
Bromochloromethane	U	5.0									
Bromodichloromethane	U	5.0									
Bromoform	U	5.0									
Bromomethane	U	5.0									
Carbon disulfide	U	5.0									
Carbon tetrachloride	U	5.0									
Chlorobenzene	U	5.0									
Chlorodifluoromethane	U	5.0									
Chloroethane	U	5.0									
Chloroform	U	5.0									
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									
Ethanol	U	25									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
1304192

ANALYTICAL QC SUMMARY REPORT

Project: Former Zoe Chemical, New Hyde Park, NY

TestCode: DryFull8260_Soil

Sample ID: MB-40056	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/30/2013	RunNo: 68455						
Client ID: PBS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013	SeqNo: 976694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	4.2	5.0									JC
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		95.8	40	140				
Surr: Dibromofluoromethane	54		50.00		108	21	140				
Surr: Toluene-d8	50		50.00		99.1	35	137				
Ethyl acetate	U	5.0									
Isopropyl acetate	U	5.0									
n-Amyl acetate	U	5.0									
n-Butyl acetate	U	5.0									
n-Propyl acetate	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank C Calibration acceptability criteria exceeded for this analyte H Holding time was exceeded
J Analyte detected below quantitation limits LOD Limit of Detection LOQ Limit of Quantitation
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035		SampType: LCS		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68511	
Client ID: LCSS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 977301	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	40	5.0	50.00	0	79.8	40	125				
1,1,2,2-Tetrachloroethane	53	5.0	50.00	0	106	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.9	40	124				
1,1-Dichloroethane	45	5.0	50.00	0	90.9	33	134				
1,1-Dichloroethene	37	5.0	50.00	0	73.9	30	141				
1,2-Dichlorobenzene	44	5.0	50.00	0	87.8	33	126				
1,2-Dichloroethane	41	5.0	50.00	0	82.2	36	131				
1,2-Dichloropropane	40	5.0	50.00	0	80.3	38	131				
1,3-Dichlorobenzene	46	5.0	50.00	0	92.9	31	130				
1,4-Dichlorobenzene	42	5.0	50.00	0	84.8	33	121				
2-Chloroethyl vinyl ether	12	5.0	50.00	0	23.4	36	138				SC
Benzene	38	5.0	50.00	0	75.7	36	126				
Bromodichloromethane	41	5.0	50.00	0	82.6	38	125				
Bromoform	52	5.0	50.00	0	105	36	131				
Bromomethane	22	5.0	50.00	0	44.1	23	135				
Carbon tetrachloride	41	5.0	50.00	0	82.7	37	130				
Chlorobenzene	42	5.0	50.00	0	84.4	41	123				
Chloroethane	25	5.0	50.00	0	49.1	20	128				
Chloroform	42	5.0	50.00	0	83.0	39	125				C
Chloromethane	18	5.0	50.00	0	36.1	33	143				
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.7	34	125				
Dibromochloromethane	42	5.0	50.00	0	83.8	36	125				
Ethylbenzene	40	5.0	50.00	0	79.8	42	124				
Methylene chloride	22	5.0	50.00	0	43.7	33	135				BC
Tetrachloroethene	38	5.0	50.00	0	75.7	30	121				
Toluene	40	5.0	50.00	0	79.2	43	121				
trans-1,2-Dichloroethene	35	5.0	50.00	0	70.6	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.4	33	120				
Trichloroethene	42	5.0	50.00	0	84.1	40	124				
Vinyl chloride	23	5.0	50.00	0	45.3	40	146				
Surr: 4-Bromofluorobenzene	50		50.00		101	40	140				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
H Holding time was exceeded
LOQ Limit of Quantitation
S Spike Recovery outside accepted recovery limits
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40035	SampType: LCS	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68511						
Client ID: LCSS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 977301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50		50.00		99.0	21	140				
Surr: Toluene-d8	49		50.00		98.4	35	137				

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68511						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 977302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,1-Dichloropropene	U	5.0									
1,2,3-Trichlorobenzene	U	5.0									
1,2,3-Trichloropropane	U	5.0									
1,2,4,5-Tetramethylbenzene	U	5.0									
1,2,4-Trichlorobenzene	U	5.0									
1,2,4-Trimethylbenzene	U	5.0									
1,2-Dibromo-3-chloropropane	U	5.0									
1,2-Dibromoethane	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,2-Dichloroethane	U	5.0									
1,2-Dichloropropane	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,3-dichloropropane	U	5.0									
1,4-Dichlorobenzene	U	5.0									
1,4-Dioxane	U	5.0									
2,2-Dichloropropane	U	5.0									C

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/29/2013		RunNo: 68511		
Client ID: PBS		Batch ID: 40035		TestNo: SW8260C		SW5035A		Analysis Date: 4/29/2013		SeqNo: 977302		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone		U	10									
2-Chloroethyl vinyl ether		U	5.0									C
2-Chlorotoluene		U	5.0									
2-Hexanone		U	10									
2-Propanol		U	5.0									
4-Chlorotoluene		U	5.0									
4-Isopropyltoluene		U	5.0									
4-Methyl-2-pentanone		U	10									
Acetone		11	10									C
Acrolein		U	25									
Acrylonitrile		U	5.0									
Benzene		U	5.0									
Bromobenzene		U	5.0									
Bromochloromethane		U	5.0									
Bromodichloromethane		U	5.0									
Bromoform		U	5.0									
Bromomethane		U	5.0									
Carbon disulfide		U	5.0									
Carbon tetrachloride		U	5.0									
Chlorobenzene		U	5.0									
Chlorodifluoromethane		U	5.0									
Chloroethane		U	5.0									
Chloroform		U	5.0									
Chloromethane		U	5.0									C
cis-1,2-Dichloroethene		U	5.0									
cis-1,3-Dichloropropene		U	5.0									
Dibromochloromethane		U	5.0									
Dibromomethane		U	5.0									
Dichlorodifluoromethane		U	5.0									
Diisopropyl ether		U	5.0									
Ethanol		U	25									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68511						
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C	SW5035A	Analysis Date: 4/29/2013	SeqNo: 977302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	2.9	5.0									JC
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.4	40	140				
Surr: Dibromofluoromethane	51		50.00		102	21	140				
Surr: Toluene-d8	49		50.00		97.5	35	137				
Ethyl acetate	U	5.0									
Isopropyl acetate	U	5.0									

JC

C

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40035	SampType: MBLK	TestCode: DryFull8260_		Units: µg/Kg	Prep Date: 4/29/2013	RunNo: 68511					
Client ID: PBS	Batch ID: 40035	TestNo: SW8260C		SW5035A	Analysis Date: 4/29/2013	SeqNo: 977302					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-40056		SampType: LCS		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/30/2013		RunNo: 68511	
Client ID: LCSS		Batch ID: 40056		TestNo: SW8260C		SW5035A		Analysis Date: 4/30/2013		SeqNo: 977304	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	38	5.0	50.00	0	75.6	40	125				
1,1,2,2-Tetrachloroethane	47	5.0	50.00	0	94.0	35	139				
1,1,2-Trichloroethane	42	5.0	50.00	0	83.8	40	124				
1,1-Dichloroethane	42	5.0	50.00	0	84.8	33	134				
1,1-Dichloroethene	35	5.0	50.00	0	70.7	30	141				
1,2-Dichlorobenzene	42	5.0	50.00	0	83.4	33	126				
1,2-Dichloroethane	40	5.0	50.00	0	79.6	36	131				
1,2-Dichloropropane	39	5.0	50.00	0	78.1	38	131				
1,3-Dichlorobenzene	44	5.0	50.00	0	87.1	31	130				
1,4-Dichlorobenzene	40	5.0	50.00	0	79.9	33	121				
2-Chloroethyl vinyl ether	U	5.0	50.00	0	0	36	138				S
Benzene	36	5.0	50.00	0	71.7	36	126				
Bromodichloromethane	40	5.0	50.00	0	80.2	38	125				
Bromoform	47	5.0	50.00	0	93.1	36	131				
Bromomethane	20	5.0	50.00	0	40.0	23	135				
Carbon tetrachloride	38	5.0	50.00	0	75.2	37	130				
Chlorobenzene	42	5.0	50.00	0	83.9	41	123				
Chloroethane	26	5.0	50.00	0	51.8	20	128				
Chloroform	40	5.0	50.00	0	79.6	39	125				
Chloromethane	18	5.0	50.00	0	35.3	33	143				
cis-1,3-Dichloropropene	39	5.0	50.00	0	77.4	34	125				
Dibromochloromethane	40	5.0	50.00	0	79.4	36	125				
Ethylbenzene	41	5.0	50.00	0	81.8	42	124				

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J		Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: LCS-40056	SampType: LCS	TestCode: DryFull8260_ Units: µg/Kg			Prep Date: 4/30/2013	RunNo: 68511					
Client ID: LCSS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013		SeqNo: 977304					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	22	5.0	50.00	0	44.0	33	135				BC
Tetrachloroethene	35	5.0	50.00	0	70.0	30	121				
Toluene	39	5.0	50.00	0	77.4	43	121				
trans-1,2-Dichloroethene	34	5.0	50.00	0	67.8	32	124				
trans-1,3-Dichloropropene	34	5.0	50.00	0	68.3	33	120				
Trichloroethene	40	5.0	50.00	0	79.6	40	124				
Vinyl chloride	24	5.0	50.00	0	47.3	40	146				
Surr: 4-Bromofluorobenzene	52		50.00		104	40	140				
Surr: Dibromofluoromethane	50		50.00		99.3	21	140				
Surr: Toluene-d8	51		50.00		101	35	137				

Sample ID: MB-40056	SampType: MBLK	TestCode: DryFull8260_ Units: µg/Kg			Prep Date: 4/30/2013	RunNo: 68511					
Client ID: PBS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013		SeqNo: 977305					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
C Calibration acceptability criteria exceeded for this analyte
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40056		SampType: MBLK		TestCode: DryFull8260_		Units: µg/Kg		Prep Date: 4/30/2013		RunNo: 68511		
Client ID: PBS		Batch ID: 40056		TestNo: SW8260C		SW5035A		Analysis Date: 4/30/2013		SeqNo: 977305		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane		U	5.0									
1,2-Dichloropropane		U	5.0									
1,3,5-Trimethylbenzene		U	5.0									
1,3-Dichlorobenzene		U	5.0									
1,3-dichloropropane		U	5.0									
1,4-Dichlorobenzene		U	5.0									
1,4-Dioxane		U	5.0									
2,2-Dichloropropane		U	5.0									
2-Butanone		U	10									C
2-Chloroethyl vinyl ether		U	5.0									
2-Chlorotoluene		U	5.0									
2-Hexanone		U	10									C
2-Propanol		U	5.0									
4-Chlorotoluene		U	5.0									
4-Isopropyltoluene		U	5.0									
4-Methyl-2-pentanone		U	10									
Acetone		U	10									
Acrolein		U	25									
Acrylonitrile		U	5.0									C
Benzene		U	5.0									
Bromobenzene		U	5.0									
Bromochloromethane		U	5.0									
Bromodichloromethane		U	5.0									
Bromoform		U	5.0									
Bromomethane		U	5.0									
Carbon disulfide		U	5.0									
Carbon tetrachloride		U	5.0									
Chlorobenzene		U	5.0									
Chlorodifluoromethane		U	5.0									
Chloroethane		U	5.0									
Chloroform		U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40056	SampType: MBLK	TestCode: DryFull8260_	Units: µg/Kg	Prep Date: 4/30/2013	RunNo: 68511						
Client ID: PBS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013	SeqNo: 977305						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									
Diisopropyl ether	U	5.0									
Ethanol	U	25									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	4.2	5.0									JC
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									C
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits
H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.

Work Order: 1304192

Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DryFull8260_Soil

Sample ID: MB-40056	SampType: MBLK	TestCode: DryFull8260_		Units: µg/Kg	Prep Date: 4/30/2013		RunNo: 68511				
Client ID: PBS	Batch ID: 40056	TestNo: SW8260C	SW5035A	Analysis Date: 4/30/2013		SeqNo: 977305					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		95.8	40	140				
Surr: Dibromofluoromethane	54		50.00		108	21	140				
Surr: Toluene-d8	50		50.00		99.1	35	137				
Ethyl acetate	U	5.0									
Isopropyl acetate	U	5.0									
n-Amyl acetate	U	5.0									
n-Butyl acetate	U	5.0									
n-Propyl acetate	U	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation	
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected	

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192
Project: Former Zoe Chemical, New Hyde Park, NY

ANALYTICAL QC SUMMARY REPORT
TestCode: RCN_DRY

Sample ID: MB-R68487	SampType: MBLK	TestCode: RCN_DRY	Units: mg/Kg	Prep Date:	RunNo: 68487						
Client ID: PBS	Batch ID: R68487	TestNo: SW7.3.3.2		Analysis Date: 5/6/2013	SeqNo: 977019						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Reactive Cyanide

U

0.100

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192
Project: Former Zoe Chemical, New Hyde Park, NY
TestCode: TCLP_HG

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB042913T	SampType: MBLK	TestCode: TCLP_HG	Units: mg/L	Prep Date:	RunNo: 68404						
Client ID: PBS	Batch ID: 40051	TestNo: SW7471B	SW1311	Analysis Date: 4/30/2013	SeqNo: 976084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.0200									

Sample ID: LCS042913T	SampType: LCS	TestCode: TCLP_HG	Units: mg/L	Prep Date:	RunNo: 68404						
Client ID: LCSS	Batch ID: 40051	TestNo: SW7471B	SW1311	Analysis Date: 4/30/2013	SeqNo: 976085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00403	0.0200	0.004000	0	101	64	123				J

Qualifiers: B Analyte detected in the associated Method Blank C Calibration acceptability criteria exceeded for this analyte H Holding time was exceeded
 J Analyte detected below quantitation limits LOD Limit of Detection LOQ Limit of Quantitation
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits U Compound was analyzed but not detected

CLIENT: CA Rich Consultants Inc.
Work Order: 1304192
Project: Former Zoe Chemical, New Hyde Park, NY
TestCode: TCLP_M

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB042913T		SampType: MBLK		TestCode: TCLP_M		Units: mg/L		Prep Date:		RunNo: 68406			
Client ID: PBS		Batch ID: 40051		TestNo: SW6010C		SW1311		Analysis Date: 4/30/2013		SeqNo: 976100			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		U		0.0500									
Barium		U		5.00									
Cadmium		U		0.0500									
Chromium		U		0.0500									
Lead		U		0.0500									
Selenium		U		0.0500									
Silver		U		0.0500									

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J		Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected

ANALYTICAL REPORT

Job Number: 460-54976-1

Job Description: Zoe Chemical Co., Site: 130211

For:

New York State D.E.C.
625 Broadway 9th Floor
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas



Approved for release.
Jennifer Capece
Project Mgmt. Assistant
5/16/2013 1:31 PM

Designee for
Melissa Haas, Project Manager I
128 Long Hill Cross Road, Shelton, CT, 06484
melissa.haas@testamericainc.com
05/16/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

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Job Number: 460-54976-1

Job Description: Zoe Chemical Co., Site: 130211

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Jennifer R. Capece". The signature is written in a cursive style with a large initial "J".

Approved for release.
Jennifer Capece
Project Mgmt. Assistant
5/16/2013 1:31 PM

Designee for
Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: Zoe Chemical Co., Site: 130211

Report Number: 460-54976-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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 04/26/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

Except:

Received sample as Dirt in jar for Voa analysis. The Voa soil samples were not collected according to 5035A/5035A_LL specifications.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS

Samples 460-54976-1 and 460-54976-2 were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 04/26/2013 and analyzed on 04/27/2013.

Samples 460-54976-1 and 460-54976-2(4X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

As a standard practice all soil samples and related QC samples (i.e., MB, LCS, Dup, MS, SD) are diluted 2X-4X prior to analysis. Further dilutions may be required dependent upon analyte levels in the samples. Refer to the analytical results forms for dilutions.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 460-54976-1 and 460-54976-2 were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared and analyzed on 04/28/2013.

Sample 460-54976-1(5X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analyses.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES

Samples 460-54976-1 and 460-54976-2 were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared and analyzed on 04/29/2013.

The continuing calibration verification (CCV) for endrin ketone associated with batch 158065 recovered above the upper control limit on the primary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCVRT 460-158065/1)

The continuing calibration verification (CCV) for analytical batch 158065 recovered outside control limits for DCB on the secondary column. The data have been qualified and reported. (CCVRT 460-158065/1)

Surrogate recoveries exceeds control limits. Spike recoveries are within control limits, therefore the data have been qualified and reported. (LCS 460-157884/2-A)

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria high for LCS 460-157884/2-A.

Refer to the QC report for details.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples 460-54976-1 and 460-54976-2 were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082. The samples were prepared and analyzed on 04/29/2013.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 460-54976-1 and 460-54976-2 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 04/26/2013 and analyzed on 05/02/2013.

The following samples were diluted due to the abundance of target and/or non-target analytes: S1 (460-54976-1), S2 (460-54976-2). Elevated reporting limits (RLs) are provided.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 460-54976-1 and 460-54976-2 were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013 and analyzed on 05/11/2013 and 05/12/2013.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 157914 were outside advisory limits for 2,3,4,6-Tetrachlorophenol. The associated laboratory control sample (LCS) recovery met acceptance criteria.

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d5 and Terphenyl-d14 failed the surrogate recovery criteria low for 460-54976-2.

Refer to the QC report for details.

Sample 460-54976-2(10X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples 460-54976-1 and 460-54976-2 were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D). The samples were analyzed on 04/30/2013.

No difficulties were encountered during the %solids/moisture analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-54976-1	S1					
1,1-Dichloroethane		30000		4500	ug/Kg	8260B
1,1,1-Trichloroethane		1000000		4500	ug/Kg	8260B
Trichloroethene		3000	J	4500	ug/Kg	8260B
Toluene		3100	J	4500	ug/Kg	8260B
Tetrachloroethene		7500		4500	ug/Kg	8260B
Bis(2-chloroethyl)ether		560		41	ug/Kg	8270C
Di-n-butyl phthalate		8300		410	ug/Kg	8270C
Benzo[g,h,i]perylene		36	J	410	ug/Kg	8270C
Benzo[b]fluoranthene		34	J	41	ug/Kg	8270C
Benzo[a]pyrene		15	J	41	ug/Kg	8270C
Butyl benzyl phthalate		90	J	410	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		410		410	ug/Kg	8270C
Chlordane		120		83	ug/Kg	8081A
4,4'-DDD		7.9	J	8.3	ug/Kg	8081A
Aluminum		4320		49.5	mg/Kg	6010B
Arsenic		3.0		1.2	mg/Kg	6010B
Barium		22.4	J	49.5	mg/Kg	6010B
Calcium		4500		1240	mg/Kg	6010B
Chromium		9.6		2.5	mg/Kg	6010B
Cobalt		3.9	J	12.4	mg/Kg	6010B
Copper		16.0		6.2	mg/Kg	6010B
Iron		9540		37.1	mg/Kg	6010B
Lead		27.4		1.2	mg/Kg	6010B
Magnesium		1130	J	1240	mg/Kg	6010B
Manganese		147		3.7	mg/Kg	6010B
Nickel		10.2		9.9	mg/Kg	6010B
Potassium		295	J	1240	mg/Kg	6010B
Vanadium		10.7	J	12.4	mg/Kg	6010B
Zinc		32.8		7.4	mg/Kg	6010B
Mercury		2.2		0.11	mg/Kg	7471A
Percent Moisture		20.0		1.0	%	Moisture
Percent Solids		80.0		1.0	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-54976-2	S2					
1,1-Dichloroethane		220	J	410	ug/Kg	8260B
1,1,1-Trichloroethane		310	J	410	ug/Kg	8260B
m&p-Xylene		310	J	820	ug/Kg	8260B
o-Xylene		190	J	410	ug/Kg	8260B
Diethyl phthalate		1000	J	3700	ug/Kg	8270C
Di-n-butyl phthalate		90000		3700	ug/Kg	8270C
Butyl benzyl phthalate		1200	J	3700	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		5500		3700	ug/Kg	8270C
Chlordane		780		75	ug/Kg	8081A
Heptachlor epoxide		7.8	p	7.5	ug/Kg	8081A
Aluminum		4760		42.1	mg/Kg	6010B
Arsenic		2.7		1.1	mg/Kg	6010B
Barium		18.8	J	42.1	mg/Kg	6010B
Beryllium		0.23	J	0.42	mg/Kg	6010B
Calcium		865	J	1050	mg/Kg	6010B
Chromium		8.4		2.1	mg/Kg	6010B
Cobalt		2.8	J	10.5	mg/Kg	6010B
Copper		18.1		5.3	mg/Kg	6010B
Iron		8780		31.6	mg/Kg	6010B
Lead		34.2		1.1	mg/Kg	6010B
Magnesium		915	J	1050	mg/Kg	6010B
Manganese		110		3.2	mg/Kg	6010B
Nickel		8.8		8.4	mg/Kg	6010B
Potassium		277	J	1050	mg/Kg	6010B
Vanadium		12.5		10.5	mg/Kg	6010B
Zinc		32.6		6.3	mg/Kg	6010B
Mercury		0.074		0.018	mg/Kg	7471A
Percent Moisture		11.3		1.0	%	Moisture
Percent Solids		88.7		1.0	%	Moisture

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-54976-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL EDI	SW846 8260B	
Closed System Purge and Trap	TAL EDI		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270C	
Automated Soxhlet Extraction	TAL EDI		SW846 3541
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081A	
Microwave Extraction	TAL EDI		SW846 3546
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL EDI	SW846 8082	
Microwave Extraction	TAL EDI		SW846 3546
Metals (ICP)	TAL EDI	SW846 6010B	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471A	
Preparation, Mercury	TAL EDI		SW846 7471A
Percent Moisture	TAL EDI	EPA Moisture	

Lab References:

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-54976-1

Method	Analyst	Analyst ID
SW846 8260B	Tupayachi, Audberto	AT
SW846 8270C	Crocco, Michael	MC
SW846 8270C	Rana, Vidhi	VR
SW846 8081A	Manlangit, Ferdie	FM
SW846 8082	Patel, Jignesh	JP
SW846 6010B	Huang, Yixin	YH
SW846 7471A	Patel, Purva H	PHP
EPA Moisture	Armbruster, Chris	CHA

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-54976-1	S1	Solid	04/24/2013 1400	04/26/2013 0925
460-54976-2	S2	Solid	04/24/2013 1400	04/26/2013 0925

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 460-158521

Instrument ID: VOAMS2

Prep Method: 5035

Prep Batch: 460-157683

Lab File ID: b55590.d

Dilution: 2000

Initial Weight/Volume: 5.50 g

Analysis Date: 05/02/2013 0921

Final Weight/Volume: 10 mL

Prep Date: 04/26/2013 1638

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		4500	U	440	4500
Bromomethane		4500	U	820	4500
Vinyl chloride		4500	U	660	4500
Chloroethane		4500	U	770	4500
Methylene Chloride		4500	U	830	4500
Acetone		23000	U	12000	23000
Carbon disulfide		4500	U	570	4500
Trichlorofluoromethane		4500	U	660	4500
1,1-Dichloroethene		4500	U	400	4500
1,1-Dichloroethane		30000		590	4500
trans-1,2-Dichloroethene		4500	U	590	4500
cis-1,2-Dichloroethene		4500	U	810	4500
Chloroform		4500	U	360	4500
2-Butanone		23000	U	11000	23000
1,2-Dichloroethane		4500	U	860	4500
1,1,1-Trichloroethane		1000000		280	4500
Carbon tetrachloride		4500	U	260	4500
Benzene		4500	U	380	4500
Bromoform		4500	U	870	4500
Styrene		4500	U	540	4500
m&p-Xylene		9100	U	1100	9100
o-Xylene		4500	U	590	4500
Ethylbenzene		4500	U	440	4500
Chlorobenzene		4500	U	500	4500
Cyclohexane		4500	U	720	4500
Isopropylbenzene		4500	U	350	4500
2-Hexanone		23000	U	2300	23000
MTBE		4500	U	630	4500
Freon TF		4500	U	370	4500
Methyl acetate		9100	U	1500	9100
1,4-Dioxane		230000	U	160000	230000
Trichloroethene		3000	J	420	4500
Toluene		3100	J	680	4500
trans-1,3-Dichloropropene		4500	U	1100	4500
4-Methyl-2-pentanone		23000	U	4500	23000
cis-1,3-Dichloropropene		4500	U	840	4500
1,2-Dichlorobenzene		4500	U	930	4500
1,3-Dichlorobenzene		4500	U	620	4500
1,4-Dichlorobenzene		4500	U	1100	4500
1,2,4-Trichlorobenzene		4500	U	1600	4500
1,2,3-Trichlorobenzene		4500	U	2300	4500
1,2-Dichloropropane		4500	U	390	4500
Methylcyclohexane		4500	U	620	4500
Tetrachloroethene		7500		440	4500
1,2-Dibromo-3-Chloropropane		4500	U	1800	4500
1,1,2,2-Tetrachloroethane		4500	U	720	4500

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 460-158521

Instrument ID: VOAMS2

Prep Method: 5035

Prep Batch: 460-157683

Lab File ID: b55590.d

Dilution: 2000

Initial Weight/Volume: 5.50 g

Analysis Date: 05/02/2013 0921

Final Weight/Volume: 10 mL

Prep Date: 04/26/2013 1638

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,2-Trichloroethane		4500	U	850	4500
Dibromochloromethane		4500	U	910	4500
1,2-Dibromoethane		4500	U	1300	4500
Dichlorodifluoromethane		4500	U	980	4500
Bromochloromethane		4500	U	1200	4500
Bromodichloromethane		4500	U	570	4500
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		106		75 - 135	
Toluene-d8 (Surr)		95		59 - 150	
Bromofluorobenzene		99		72 - 133	

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 460-158521

Instrument ID: VOAMS2

Prep Method: 5035

Prep Batch: 460-157683

Lab File ID: b55591.d

Dilution: 200

Initial Weight/Volume: 5.53 g

Analysis Date: 05/02/2013 0944

Final Weight/Volume: 10 mL

Prep Date: 04/26/2013 1639

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		410	U	39	410
Bromomethane		410	U	74	410
Vinyl chloride		410	U	59	410
Chloroethane		410	U	69	410
Methylene Chloride		410	U	74	410
Acetone		2000	U	1100	2000
Carbon disulfide		410	U	51	410
Trichlorofluoromethane		410	U	59	410
1,1-Dichloroethene		410	U	36	410
1,1-Dichloroethane		220	J	53	410
trans-1,2-Dichloroethene		410	U	52	410
cis-1,2-Dichloroethene		410	U	72	410
Chloroform		410	U	32	410
2-Butanone		2000	U	950	2000
1,2-Dichloroethane		410	U	77	410
1,1,1-Trichloroethane		310	J	25	410
Carbon tetrachloride		410	U	23	410
Benzene		410	U	34	410
Bromoform		410	U	78	410
Styrene		410	U	48	410
m&p-Xylene		310	J	100	820
o-Xylene		190	J	53	410
Ethylbenzene		410	U	39	410
Chlorobenzene		410	U	45	410
Cyclohexane		410	U	65	410
Isopropylbenzene		410	U	31	410
2-Hexanone		2000	U	200	2000
MTBE		410	U	56	410
Freon TF		410	U	33	410
Methyl acetate		820	U	140	820
1,4-Dioxane		20000	U	15000	20000
Trichloroethene		410	U	37	410
Toluene		410	U	61	410
trans-1,3-Dichloropropene		410	U	99	410
4-Methyl-2-pentanone		2000	U	400	2000
cis-1,3-Dichloropropene		410	U	75	410
1,2-Dichlorobenzene		410	U	84	410
1,3-Dichlorobenzene		410	U	55	410
1,4-Dichlorobenzene		410	U	95	410
1,2,4-Trichlorobenzene		410	U	140	410
1,2,3-Trichlorobenzene		410	U	210	410
1,2-Dichloropropane		410	U	35	410
Methylcyclohexane		410	U	55	410
Tetrachloroethene		410	U	40	410
1,2-Dibromo-3-Chloropropane		410	U	160	410
1,1,2,2-Tetrachloroethane		410	U	64	410

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 460-158521

Instrument ID: VOAMS2

Prep Method: 5035

Prep Batch: 460-157683

Lab File ID: b55591.d

Dilution: 200

Initial Weight/Volume: 5.53 g

Analysis Date: 05/02/2013 0944

Final Weight/Volume: 10 mL

Prep Date: 04/26/2013 1639

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,2-Trichloroethane		410	U	76	410
Dibromochloromethane		410	U	81	410
1,2-Dibromoethane		410	U	110	410
Dichlorodifluoromethane		410	U	88	410
Bromochloromethane		410	U	110	410
Bromodichloromethane		410	U	51	410
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		102		75 - 135	
Toluene-d8 (Surr)		101		59 - 150	
Bromofluorobenzene		101		72 - 133	

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-160367	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-157914	Lab File ID:	p37199.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Analysis Date:	05/11/2013 0032			Final Weight/Volume:	1 mL
Prep Date:	04/29/2013 1106			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	55	410
2-Chlorophenol		410	U	54	410
2-Methylphenol		410	U	70	410
4-Methylphenol		410	U	81	410
Benzaldehyde		410	U	49	410
Acetophenone		410	U	63	410
Bis(2-chloroethyl)ether		560		5.6	41
2,2'-oxybis[1-chloropropane]		410	U	46	410
N-Nitrosodi-n-propylamine		41	U	6.9	41
Nitrobenzene		41	U	5.9	41
Hexachloroethane		41	U	4.6	41
Isophorone		410	U	50	410
2-Nitrophenol		410	U	46	410
2,4-Dimethylphenol		410	U	100	410
2,4-Dichlorophenol		410	U	60	410
Bis(2-chloroethoxy)methane		410	U	53	410
Naphthalene		410	U	48	410
4-Chloroaniline		410	U	110	410
Hexachlorobutadiene		84	U	10	84
Caprolactam		410	U	95	410
4-Chloro-3-methylphenol		410	U	62	410
2-Methylnaphthalene		410	U	53	410
Hexachlorobenzene		41	U	5.6	41
Hexachlorocyclopentadiene		410	U	49	410
2,4,6-Trichlorophenol		410	U	48	410
2,4,5-Trichlorophenol		410	U	53	410
Diphenyl		410	U	55	410
2-Chloronaphthalene		410	U	46	410
2-Nitroaniline		840	U	170	840
2,6-Dinitrotoluene		84	U	12	84
Dimethyl phthalate		410	U	49	410
Acenaphthylene		410	U	49	410
3-Nitroaniline		840	U	150	840
Acenaphthene		410	U	60	410
4-Nitrophenol		1200	U	270	1200
2,4-Dinitrophenol		1200	U	230	1200
Dibenzofuran		410	U	48	410
Diethyl phthalate		410	U	49	410
Fluorene		410	U	53	410
Fluoranthene		410	U	55	410
Di-n-butyl phthalate		8300		51	410
2,4-Dinitrotoluene		84	U	14	84
4-Chlorophenyl phenyl ether		410	U	48	410
4-Nitroaniline		840	U	130	840
4,6-Dinitro-2-methylphenol		1200	U	110	1200
4-Bromophenyl phenyl ether		410	U	41	410

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-160367	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-157914	Lab File ID:	p37199.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Analysis Date:	05/11/2013 0032			Final Weight/Volume:	1 mL
Prep Date:	04/29/2013 1106			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Atrazine		410	U	64	410
Anthracene		410	U	50	410
Carbazole		410	U	49	410
Phenanthrene		410	U	53	410
Pentachlorophenol		1200	U	120	1200
Pyrene		410	U	35	410
Chrysene		410	U	48	410
Benzo[k]fluoranthene		41	U	3.1	41
Benzo[g,h,i]perylene		36	J	31	410
Benzo[b]fluoranthene		34	J	2.6	41
Benzo[a]pyrene		15	J	2.9	41
Benzo[a]anthracene		41	U	2.9	41
N-Nitrosodiphenylamine		410	U	41	410
Butyl benzyl phthalate		90	J	38	410
Bis(2-ethylhexyl) phthalate		410		140	410
Di-n-octyl phthalate		410	U	26	410
Indeno[1,2,3-cd]pyrene		41	U	7.7	41
Dibenz(a,h)anthracene		41	U	5.2	41
3,3'-Dichlorobenzidine		840	U	140	840
1,2,4,5-Tetrachlorobenzene		410	U	56	410
2,3,4,6-Tetrachlorophenol		410	U	54	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		38 - 105
Phenol-d5	89		41 - 118
Terphenyl-d14	74		16 - 151
2,4,6-Tribromophenol	57		10 - 120
2-Fluorophenol	78		37 - 125
2-Fluorobiphenyl	82		40 - 109

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-160509	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-157914	Lab File ID:	p37241.d
Dilution:	10			Initial Weight/Volume:	15.00 g
Analysis Date:	05/12/2013 0802			Final Weight/Volume:	1 mL
Prep Date:	04/29/2013 1106			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		3700	U	500	3700
2-Chlorophenol		3700	U	490	3700
2-Methylphenol		3700	U	640	3700
4-Methylphenol		3700	U	730	3700
Benzaldehyde		3700	U	440	3700
Acetophenone		3700	U	570	3700
Bis(2-chloroethyl)ether		370	U	51	370
2,2'-oxybis[1-chloropropane]		3700	U	410	3700
N-Nitrosodi-n-propylamine		370	U	62	370
Nitrobenzene		370	U	53	370
Hexachloroethane		370	U	41	370
Isophorone		3700	U	450	3700
2-Nitrophenol		3700	U	420	3700
2,4-Dimethylphenol		3700	U	920	3700
2,4-Dichlorophenol		3700	U	550	3700
Bis(2-chloroethoxy)methane		3700	U	480	3700
Naphthalene		3700	U	430	3700
4-Chloroaniline		3700	U	990	3700
Hexachlorobutadiene		750	U	91	750
Caprolactam		3700	U	860	3700
4-Chloro-3-methylphenol		3700	U	560	3700
2-Methylnaphthalene		3700	U	480	3700
Hexachlorobenzene		370	U	51	370
Hexachlorocyclopentadiene		3700	U	440	3700
2,4,6-Trichlorophenol		3700	U	440	3700
2,4,5-Trichlorophenol		3700	U	480	3700
Diphenyl		3700	U	500	3700
2-Chloronaphthalene		3700	U	420	3700
2-Nitroaniline		7500	U	1600	7500
2,6-Dinitrotoluene		750	U	110	750
Dimethyl phthalate		3700	U	440	3700
Acenaphthylene		3700	U	440	3700
3-Nitroaniline		7500	U	1300	7500
Acenaphthene		3700	U	540	3700
4-Nitrophenol		11000	U	2400	11000
2,4-Dinitrophenol		11000	U	2100	11000
Dibenzofuran		3700	U	440	3700
Diethyl phthalate		1000	J	440	3700
Fluorene		3700	U	480	3700
Fluoranthene		3700	U	500	3700
Di-n-butyl phthalate		90000		460	3700
2,4-Dinitrotoluene		750	U	120	750
4-Chlorophenyl phenyl ether		3700	U	440	3700
4-Nitroaniline		7500	U	1200	7500
4,6-Dinitro-2-methylphenol		11000	U	1000	11000
4-Bromophenyl phenyl ether		3700	U	370	3700

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-160509	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-157914	Lab File ID:	p37241.d
Dilution:	10			Initial Weight/Volume:	15.00 g
Analysis Date:	05/12/2013 0802			Final Weight/Volume:	1 mL
Prep Date:	04/29/2013 1106			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Atrazine		3700	U	580	3700
Anthracene		3700	U	450	3700
Carbazole		3700	U	440	3700
Phenanthrene		3700	U	470	3700
Pentachlorophenol		11000	U	1100	11000
Pyrene		3700	U	310	3700
Chrysene		3700	U	430	3700
Benzo[k]fluoranthene		370	U	28	370
Benzo[g,h,i]perylene		3700	U	280	3700
Benzo[b]fluoranthene		370	U	24	370
Benzo[a]pyrene		370	U	26	370
Benzo[a]anthracene		370	U	26	370
N-Nitrosodiphenylamine		3700	U	370	3700
Butyl benzyl phthalate		1200	J	340	3700
Bis(2-ethylhexyl) phthalate		5500		1200	3700
Di-n-octyl phthalate		3700	U	240	3700
Indeno[1,2,3-cd]pyrene		370	U	69	370
Dibenz(a,h)anthracene		370	U	47	370
3,3'-Dichlorobenzidine		7500	U	1300	7500
1,2,4,5-Tetrachlorobenzene		3700	U	500	3700
2,3,4,6-Tetrachlorophenol		3700	U	480	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	*	38 - 105
Phenol-d5	0	*	41 - 118
Terphenyl-d14	0	*	16 - 151
2,4,6-Tribromophenol	0	*	10 - 120
2-Fluorophenol	0	*	37 - 125
2-Fluorobiphenyl	0	*	40 - 109

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	460-158065	Instrument ID:	PESTGC4
Prep Method:	3546	Prep Batch:	460-157884	Initial Weight/Volume:	15.05 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/29/2013 2258			Injection Volume:	1 uL
Prep Date:	04/29/2013 0841			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aldrin		8.3	U	1.7	8.3
alpha-BHC		8.3	U	1.9	8.3
beta-BHC		8.3	U	2.0	8.3
delta-BHC		8.3	U	1.5	8.3
gamma-BHC (Lindane)		8.3	U	1.5	8.3
Chlordane		120		24	83
4,4'-DDD		7.9	J	1.6	8.3
4,4'-DDE		8.3	U	1.6	8.3
4,4'-DDT		8.3	U	2.0	8.3
Dieldrin		8.3	U	1.5	8.3
Endosulfan I		8.3	U	1.9	8.3
Endosulfan II		8.3	U	1.6	8.3
Endosulfan sulfate		8.3	U	1.6	8.3
Endrin		8.3	U	2.0	8.3
Endrin aldehyde		8.3	U	1.2	8.3
Endrin ketone		8.3	U	1.6	8.3
Heptachlor		8.3	U	2.0	8.3
Heptachlor epoxide		8.3	U	1.9	8.3
Methoxychlor		8.3	U	2.0	8.3
Toxaphene		83	U	22	83

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	96		37 - 150
DCB Decachlorobiphenyl	116		60 - 150

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8081A Organochlorine Pesticides (GC)

Analysis Method: 8081A

Analysis Batch: 460-158065

Instrument ID: PESTGC4

Prep Method: 3546

Prep Batch: 460-157884

Initial Weight/Volume: 15.05 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 04/29/2013 2258

Injection Volume: 1 uL

Prep Date: 04/29/2013 0841

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	113		37 - 150
DCB Decachlorobiphenyl	124		60 - 150

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	460-158065	Instrument ID:	PESTGC4
Prep Method:	3546	Prep Batch:	460-157884	Initial Weight/Volume:	15.00 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/29/2013 2313			Injection Volume:	1 uL
Prep Date:	04/29/2013 0841			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aldrin		7.5	U	1.6	7.5
alpha-BHC		7.5	U	1.7	7.5
beta-BHC		7.5	U	1.8	7.5
delta-BHC		7.5	U	1.4	7.5
gamma-BHC (Lindane)		7.5	U	1.4	7.5
Chlordane		780		21	75
4,4'-DDD		7.5	U	1.5	7.5
4,4'-DDE		7.5	U	1.5	7.5
4,4'-DDT		7.5	U	1.8	7.5
Dieldrin		7.5	U	1.4	7.5
Endosulfan I		7.5	U	1.7	7.5
Endosulfan II		7.5	U	1.5	7.5
Endosulfan sulfate		7.5	U	1.5	7.5
Endrin		7.5	U	1.8	7.5
Endrin aldehyde		7.5	U	1.1	7.5
Endrin ketone		7.5	U	1.5	7.5
Heptachlor		7.5	U	1.8	7.5
Heptachlor epoxide		7.8	p	1.7	7.5
Methoxychlor		7.5	U	1.8	7.5
Toxaphene		75	U	20	75

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		37 - 150
DCB Decachlorobiphenyl	98		60 - 150

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8081A Organochlorine Pesticides (GC)

Analysis Method: 8081A

Analysis Batch: 460-158065

Instrument ID: PESTGC4

Prep Method: 3546

Prep Batch: 460-157884

Initial Weight/Volume: 15.00 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 04/29/2013 2313

Injection Volume: 1 uL

Prep Date: 04/29/2013 0841

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	94		37 - 150
DCB Decachlorobiphenyl	116		60 - 150

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	460-157973	Instrument ID:	CPESTGC7
Prep Method:	3546	Prep Batch:	460-157879	Initial Weight/Volume:	15.04 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/29/2013 2040			Injection Volume:	1 uL
Prep Date:	04/29/2013 0821			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		83	U	19	83
Aroclor 1221		83	U	19	83
Aroclor 1232		83	U	19	83
Aroclor 1242		83	U	19	83
Aroclor 1248		83	U	19	83
Aroclor 1254		83	U	24	83
Aroclor 1260		83	U	24	83
Aroclor 1262		83	U	24	83
Aroclor 1268		83	U	24	83
Polychlorinated biphenyls, Total		83	U	24	83

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		45 - 138

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082

Analysis Batch: 460-157973

Instrument ID: CPESTGC7

Prep Method: 3546

Prep Batch: 460-157879

Initial Weight/Volume: 15.04 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 04/29/2013 2040

Injection Volume: 1 uL

Prep Date: 04/29/2013 0821

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	112		45 - 138

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	460-157973	Instrument ID:	CPESTGC7
Prep Method:	3546	Prep Batch:	460-157879	Initial Weight/Volume:	15.02 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/29/2013 2056			Injection Volume:	1 uL
Prep Date:	04/29/2013 0821			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		75	U	17	75
Aroclor 1221		75	U	17	75
Aroclor 1232		75	U	17	75
Aroclor 1242		75	U	17	75
Aroclor 1248		75	U	17	75
Aroclor 1254		75	U	21	75
Aroclor 1260		75	U	21	75
Aroclor 1262		75	U	21	75
Aroclor 1268		75	U	21	75
Polychlorinated biphenyls, Total		75	U	21	75

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		45 - 138

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082

Analysis Batch: 460-157973

Instrument ID: CPESTGC7

Prep Method: 3546

Prep Batch: 460-157879

Initial Weight/Volume: 15.02 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 04/29/2013 2056

Injection Volume: 1 uL

Prep Date: 04/29/2013 0821

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		45 - 138

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 20.0

Date Received: 04/26/2013 0925

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 460-157806

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-157700

Lab File ID: 04282013.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 04/27/2013 2116

Final Weight/Volume: 50 mL

Prep Date: 04/26/2013 1810

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4320		22.5	49.5
Antimony		2.5	U	1.5	2.5
Arsenic		3.0		1.2	1.2
Barium		22.4	J	1.4	49.5
Beryllium		0.49	U	0.18	0.49
Cadmium		1.2	U	0.18	1.2
Calcium		4500		87.6	1240
Chromium		9.6		1.1	2.5
Cobalt		3.9	J	1.1	12.4
Copper		16.0		2.4	6.2
Iron		9540		15.0	37.1
Lead		27.4		1.1	1.2
Magnesium		1130	J	89.1	1240
Manganese		147		1.1	3.7
Nickel		10.2		1.1	9.9
Potassium		295	J	132	1240
Selenium		2.5	U	1.6	2.5
Silver		2.5	U	0.25	2.5
Sodium		1240	U	195	1240
Thallium		2.5	U	1.4	2.5
Vanadium		10.7	J	0.95	12.4
Zinc		32.8		1.3	7.4

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 460-157837

Instrument ID: LEEMAN5

Prep Method: 7471A

Prep Batch: 460-157810

Lab File ID: 157810.PRN

Dilution: 5.0

Initial Weight/Volume: 0.60 g

Analysis Date: 04/28/2013 1914

Final Weight/Volume: 50 mL

Prep Date: 04/28/2013 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.2		0.075	0.11

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

Client Sample ID: S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

% Moisture: 11.3

Date Received: 04/26/2013 0925

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 460-157806

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-157700

Lab File ID: 04282013.asc

Dilution: 4.0

Initial Weight/Volume: 1.07 g

Analysis Date: 04/27/2013 2120

Final Weight/Volume: 50 mL

Prep Date: 04/26/2013 1810

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4760		19.2	42.1
Antimony		2.1	U	1.3	2.1
Arsenic		2.7		0.99	1.1
Barium		18.8	J	1.2	42.1
Beryllium		0.23	J	0.15	0.42
Cadmium		1.1	U	0.16	1.1
Calcium		865	J	74.6	1050
Chromium		8.4		0.91	2.1
Cobalt		2.8	J	0.90	10.5
Copper		18.1		2.0	5.3
Iron		8780		12.7	31.6
Lead		34.2		0.91	1.1
Magnesium		915	J	75.8	1050
Manganese		110		0.93	3.2
Nickel		8.8		0.93	8.4
Potassium		277	J	113	1050
Selenium		2.1	U	1.4	2.1
Silver		2.1	U	0.21	2.1
Sodium		1050	U	166	1050
Thallium		2.1	U	1.2	2.1
Vanadium		12.5		0.81	10.5
Zinc		32.6		1.1	6.3

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 460-157837

Instrument ID: LEEMAN5

Prep Method: 7471A

Prep Batch: 460-157815

Lab File ID: 157810.PRN

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 04/28/2013 1826

Final Weight/Volume: 50 mL

Prep Date: 04/28/2013 1225

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.074		0.013	0.018

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

General Chemistry**Client Sample ID:** S1

Lab Sample ID: 460-54976-1

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

Date Received: 04/26/2013 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-158159	Analysis Date: 04/30/2013 1341					DryWt Corrected: N
Percent Solids	80.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-158159	Analysis Date: 04/30/2013 1341					DryWt Corrected: N

Analytical Data

Client: New York State D.E.C.

Job Number: 460-54976-1

General Chemistry**Client Sample ID:** S2

Lab Sample ID: 460-54976-2

Date Sampled: 04/24/2013 1400

Client Matrix: Solid

Date Received: 04/26/2013 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-158159	Analysis Date: 04/30/2013 1341					DryWt Corrected: N
Percent Solids	88.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-158159	Analysis Date: 04/30/2013 1341					DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
GC/MS Semi VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	Surrogate exceeds the control limit
GC Semi VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	Surrogate exceeds the control limit
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 460-157683					
460-54976-1	S1	T	Solid	5035	
460-54976-2	S2	T	Solid	5035	
Analysis Batch:460-158521					
LCS 460-158521/3	Lab Control Sample	T	Solid	8260B	
MB 460-158521/4	Method Blank	T	Solid	8260B	
460-54976-1	S1	T	Solid	8260B	460-157683
460-54976-2	S2	T	Solid	8260B	460-157683

Report Basis

T = Total

GC/MS Semi VOA

Prep Batch: 460-157914					
LCS 460-157914/2-A	Lab Control Sample	T	Solid	3541	
MB 460-157914/1-A	Method Blank	T	Solid	3541	
460-54976-1	S1	T	Solid	3541	
460-54976-2	S2	T	Solid	3541	
Analysis Batch:460-158201					
LCS 460-157914/2-A	Lab Control Sample	T	Solid	8270C	460-157914
MB 460-157914/1-A	Method Blank	T	Solid	8270C	460-157914
Analysis Batch:460-160367					
460-54976-1	S1	T	Solid	8270C	460-157914
Analysis Batch:460-160509					
460-54976-2	S2	T	Solid	8270C	460-157914

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:460-157872					
LCS 460-157879/2-A	Lab Control Sample	T	Solid	8082	460-157879
MB 460-157879/1-A	Method Blank	T	Solid	8082	460-157879
Prep Batch: 460-157879					
LCS 460-157879/2-A	Lab Control Sample	T	Solid	3546	
MB 460-157879/1-A	Method Blank	T	Solid	3546	
460-54976-1	S1	T	Solid	3546	
460-54976-2	S2	T	Solid	3546	
Prep Batch: 460-157884					
LCS 460-157884/2-A	Lab Control Sample	T	Solid	3546	
MB 460-157884/1-A	Method Blank	T	Solid	3546	
460-54976-1	S1	T	Solid	3546	
460-54976-2	S2	T	Solid	3546	
Analysis Batch:460-157973					
460-54976-1	S1	T	Solid	8082	460-157879
460-54976-2	S2	T	Solid	8082	460-157879
Analysis Batch:460-158065					
LCS 460-157884/2-A	Lab Control Sample	T	Solid	8081A	460-157884
MB 460-157884/1-A	Method Blank	T	Solid	8081A	460-157884
460-54976-1	S1	T	Solid	8081A	460-157884
460-54976-2	S2	T	Solid	8081A	460-157884

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-157700					
LCSSRM 460-157700/2-A	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-157700/1-A ^2	Method Blank	T	Solid	3050B	
460-54976-1	S1	T	Solid	3050B	
460-54976-2	S2	T	Solid	3050B	
Analysis Batch:460-157806					
LCSSRM 460-157700/2-A	LCS-Certified Reference Material	T	Solid	6010B	460-157700
MB 460-157700/1-A ^2	Method Blank	T	Solid	6010B	460-157700
460-54976-1	S1	T	Solid	6010B	460-157700
460-54976-2	S2	T	Solid	6010B	460-157700
Prep Batch: 460-157810					
LCSSRM 460-157810/2-A ^50	LCS-Certified Reference Material	T	Solid	7471A	
MB 460-157810/1-A	Method Blank	T	Solid	7471A	
460-54976-1	S1	T	Solid	7471A	
Prep Batch: 460-157815					
LCSSRM 460-157815/2-A ^50	LCS-Certified Reference Material	T	Solid	7471A	
MB 460-157815/1-A	Method Blank	T	Solid	7471A	
460-54976-2	S2	T	Solid	7471A	
Analysis Batch:460-157837					
LCSSRM 460-157810/2-A ^50	LCS-Certified Reference Material	T	Solid	7471A	460-157810
MB 460-157810/1-A	Method Blank	T	Solid	7471A	460-157810
LCSSRM 460-157815/2-A ^50	LCS-Certified Reference Material	T	Solid	7471A	460-157815
MB 460-157815/1-A	Method Blank	T	Solid	7471A	460-157815
460-54976-1	S1	T	Solid	7471A	460-157810
460-54976-2	S2	T	Solid	7471A	460-157815

Report Basis

T = Total

General Chemistry

Analysis Batch:460-158159					
460-54976-1	S1	T	Solid	Moisture	
460-54976-2	S2	T	Solid	Moisture	

Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-54976-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
460-54976-1	S1	106	95	99
460-54976-2	S2	102	101	101
MB 460-158521/4		99	98	98
LCS 460-158521/3		100	96	105

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	75-135
TOL = Toluene-d8 (Surr)	59-150
BFB = Bromofluorobenzene	72-133

Client: New York State D.E.C.

Job Number: 460-54976-1

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec	2FP %Rec	FBP %Rec
460-54976-1	S1	87	89	74	57	78	82
460-54976-2	S2	0*	0*	0*	0*	0*	0*
MB 460-157914/1-A		83	81	85	81	64	78
LCS 460-157914/2-A		70	68	67	75	55	68

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	38-105
PHL = Phenol-d5	41-118
TPH = Terphenyl-d14	16-151
TBP = 2,4,6-Tribromophenol	10-120
2FP = 2-Fluorophenol	37-125
FBP = 2-Fluorobiphenyl	40-109

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Surrogate Recovery Report

8081A Organochlorine Pesticides (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
460-54976-1	S1	96	113	116	124
460-54976-2	S2	82	94	98	116
MB 460-157884/1-A		128	145	145	147
LCS 460-157884/2-A		146	157*	155*	158*

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	37-150
DCB = DCB Decachlorobiphenyl	60-150

Client: New York State D.E.C.

Job Number: 460-54976-1

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec
460-54976-1	S1	101	112
460-54976-2	S2	78	104
MB 460-157879/1-A		119	128
LCS 460-157879/2-A		116	121

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	45-138

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-158521

Method: 8260B Preparation: N/A

Lab Sample ID: MB 460-158521/4
Client Matrix: Solid
Dilution: 50
Analysis Date: 05/02/2013 0728
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 460-158521
Prep Batch: N/A
Leach Batch: N/A
Units: ug/Kg

Instrument ID: VOAMS2
Lab File ID: b55585.d
Initial Weight/Volume: 2.5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	100	U	9.7	100
Bromomethane	100	U	18	100
Vinyl chloride	100	U	14	100
Chloroethane	100	U	17	100
Methylene Chloride	100	U	18	100
Acetone	500	U	270	500
Carbon disulfide	100	U	13	100
Trichlorofluoromethane	100	U	15	100
1,1-Dichloroethene	100	U	8.8	100
1,1-Dichloroethane	100	U	13	100
trans-1,2-Dichloroethene	100	U	13	100
cis-1,2-Dichloroethene	100	U	18	100
Chloroform	100	U	7.9	100
2-Butanone	500	U	230	500
1,2-Dichloroethane	100	U	19	100
1,1,1-Trichloroethane	100	U	6.2	100
Carbon tetrachloride	100	U	5.7	100
Benzene	100	U	8.3	100
Bromoform	100	U	19	100
Styrene	100	U	12	100
m&p-Xylene	200	U	25	200
o-Xylene	100	U	13	100
Ethylbenzene	100	U	9.6	100
Chlorobenzene	100	U	11	100
Cyclohexane	100	U	16	100
Isopropylbenzene	100	U	7.7	100
2-Hexanone	500	U	50	500
MTBE	100	U	14	100
Freon TF	100	U	8.2	100
Methyl acetate	200	U	34	200
1,4-Dioxane	5000	U	3600	5000
Trichloroethene	100	U	9.2	100
Toluene	100	U	15	100
trans-1,3-Dichloropropene	100	U	24	100
4-Methyl-2-pentanone	500	U	99	500
cis-1,3-Dichloropropene	100	U	18	100
1,2-Dichlorobenzene	100	U	21	100
1,3-Dichlorobenzene	100	U	14	100
1,4-Dichlorobenzene	100	U	23	100
1,2,4-Trichlorobenzene	100	U	34	100
1,2,3-Trichlorobenzene	100	U	51	100
1,2-Dichloropropane	100	U	8.6	100
Methylcyclohexane	100	U	14	100
Tetrachloroethene	100	U	9.7	100
1,2-Dibromo-3-Chloropropane	100	U	40	100

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-158521

Method: 8260B Preparation: N/A

Lab Sample ID: MB 460-158521/4
Client Matrix: Solid
Dilution: 50
Analysis Date: 05/02/2013 0728
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 460-158521
Prep Batch: N/A
Leach Batch: N/A
Units: ug/Kg

Instrument ID: VOAMS2
Lab File ID: b55585.d
Initial Weight/Volume: 2.5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	100	U	16	100
1,1,2-Trichloroethane	100	U	19	100
Dibromochloromethane	100	U	20	100
1,2-Dibromoethane	100	U	28	100
Dichlorodifluoromethane	100	U	22	100
Bromochloromethane	100	U	27	100
Bromodichloromethane	100	U	13	100

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	75 - 135
Toluene-d8 (Surr)	98	59 - 150
Bromofluorobenzene	98	72 - 133

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-158521

Method: 8260B

Preparation: N/A

Lab Sample ID: LCS 460-158521/3
 Client Matrix: Solid
 Dilution: 50
 Analysis Date: 05/02/2013 0603
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 460-158521
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: VOAMS2
 Lab File ID: b55582.d
 Initial Weight/Volume: 2.5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	2000	1730	86	52 - 144	
Bromomethane	2000	1610	80	58 - 154	
Vinyl chloride	2000	1730	86	55 - 154	
Chloroethane	2000	2120	106	66 - 144	
Methylene Chloride	2000	1730	87	78 - 118	
Acetone	2000	2030	102	48 - 177	
Carbon disulfide	2000	1680	84	70 - 120	
Trichlorofluoromethane	2000	1810	90	60 - 148	
1,1-Dichloroethene	2000	2130	107	68 - 138	
1,1-Dichloroethane	2000	2020	101	79 - 119	
trans-1,2-Dichloroethene	2000	1940	97	73 - 119	
cis-1,2-Dichloroethene	2000	1800	90	78 - 118	
Chloroform	2000	1960	98	81 - 122	
2-Butanone	2000	2070	104	70 - 139	
1,2-Dichloroethane	2000	1870	93	81 - 121	
1,1,1-Trichloroethane	2000	1920	96	78 - 118	
Carbon tetrachloride	2000	1790	90	64 - 130	
Benzene	2000	1900	95	71 - 118	
Bromoform	2000	1660	83	76 - 133	
Styrene	2000	1870	94	73 - 126	
m&p-Xylene	4000	3520	88	78 - 127	
o-Xylene	2000	1910	95	77 - 122	
Ethylbenzene	2000	1830	91	78 - 124	
Chlorobenzene	2000	1880	94	69 - 124	
Cyclohexane	2000	1700	85	69 - 128	
Isopropylbenzene	2000	1780	89	80 - 143	
2-Hexanone	2000	2220	111	62 - 123	
MTBE	2000	2440	122	65 - 143	
Freon TF	2000	1950	97	50 - 128	
Methyl acetate	2000	2250	113	72 - 165	
1,4-Dioxane	15000	16900	113	54 - 147	
Trichloroethene	2000	1870	94	82 - 122	
Toluene	2000	1880	94	79 - 136	
trans-1,3-Dichloropropene	2000	1830	92	73 - 118	
4-Methyl-2-pentanone	2000	2130	107	69 - 124	
cis-1,3-Dichloropropene	2000	1910	96	75 - 120	
1,2-Dichlorobenzene	2000	2030	101	83 - 123	
1,3-Dichlorobenzene	2000	1880	94	83 - 123	
1,4-Dichlorobenzene	2000	1850	92	84 - 124	
1,2,4-Trichlorobenzene	2000	1960	98	62 - 144	
1,2,3-Trichlorobenzene	2000	1970	98	36 - 207	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-158521

Method: 8260B

Preparation: N/A

Lab Sample ID:	LCS 460-158521/3	Analysis Batch:	460-158521	Instrument ID:	VOAMS2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	b55582.d
Dilution:	50	Leach Batch:	N/A	Initial Weight/Volume:	2.5 mL
Analysis Date:	05/02/2013 0603	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dichloropropane	2000	1940	97	78 - 118	
Methylcyclohexane	2000	1630	81	80 - 134	
Tetrachloroethene	2000	1930	96	78 - 136	
1,2-Dibromo-3-Chloropropane	2000	1910	95	62 - 127	
1,1,2,2-Tetrachloroethane	2000	2000	100	86 - 145	
1,1,2-Trichloroethane	2000	1940	97	77 - 120	
Dibromochloromethane	2000	1820	91	78 - 118	
1,2-Dibromoethane	2000	1990	100	76 - 120	
Dichlorodifluoromethane	2000	1450	72	41 - 149	
Bromochloromethane	2000	1960	98	81 - 121	
Bromodichloromethane	2000	1820	91	78 - 118	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	100		75 - 135		
Toluene-d8 (Surr)	96		59 - 150		
Bromofluorobenzene	105		72 - 133		

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157914

Method: 8270C Preparation: 3541

Lab Sample ID: MB 460-157914/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/30/2013 1508
Prep Date: 04/29/2013 1106
Leach Date: N/A

Analysis Batch: 460-158201
Prep Batch: 460-157914
Leach Batch: N/A
Units: ug/Kg

Instrument ID: BNAMS10
Lab File ID: p36851.d
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Phenol	330	U	44	330
2-Chlorophenol	330	U	44	330
2-Methylphenol	330	U	56	330
4-Methylphenol	330	U	65	330
Benzaldehyde	330	U	39	330
Acetophenone	330	U	51	330
Bis(2-chloroethyl)ether	33	U	4.5	33
2,2'-oxybis[1-chloropropane]	330	U	37	330
N-Nitrosodi-n-propylamine	33	U	5.5	33
Nitrobenzene	33	U	4.7	33
Hexachloroethane	33	U	3.7	33
Isophorone	330	U	40	330
2-Nitrophenol	330	U	37	330
2,4-Dimethylphenol	330	U	82	330
2,4-Dichlorophenol	330	U	48	330
Bis(2-chloroethoxy)methane	330	U	43	330
Naphthalene	330	U	38	330
4-Chloroaniline	330	U	88	330
Hexachlorobutadiene	67	U	8.1	67
Caprolactam	330	U	76	330
4-Chloro-3-methylphenol	330	U	50	330
2-Methylnaphthalene	330	U	43	330
Hexachlorobenzene	33	U	4.5	33
Hexachlorocyclopentadiene	330	U	39	330
2,4,6-Trichlorophenol	330	U	39	330
2,4,5-Trichlorophenol	330	U	43	330
Diphenyl	330	U	44	330
2-Chloronaphthalene	330	U	37	330
2-Nitroaniline	670	U	140	670
2,6-Dinitrotoluene	67	U	10	67
Dimethyl phthalate	330	U	39	330
Acenaphthylene	330	U	39	330
3-Nitroaniline	670	U	120	670
Acenaphthene	330	U	48	330
4-Nitrophenol	1000	U	210	1000
2,4-Dinitrophenol	1000	U	190	1000
Dibenzofuran	330	U	39	330
Diethyl phthalate	330	U	39	330
Fluorene	330	U	42	330
Fluoranthene	330	U	44	330
Di-n-butyl phthalate	330	U	41	330
2,4-Dinitrotoluene	67	U	11	67
4-Chlorophenyl phenyl ether	330	U	39	330
4-Nitroaniline	670	U	100	670
4,6-Dinitro-2-methylphenol	1000	U	90	1000

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157914

Method: 8270C Preparation: 3541

Lab Sample ID: MB 460-157914/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/30/2013 1508
Prep Date: 04/29/2013 1106
Leach Date: N/A

Analysis Batch: 460-158201
Prep Batch: 460-157914
Leach Batch: N/A
Units: ug/Kg

Instrument ID: BNAMS10
Lab File ID: p36851.d
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
4-Bromophenyl phenyl ether	330	U	33	330
Atrazine	330	U	51	330
Anthracene	330	U	40	330
Carbazole	330	U	39	330
Phenanthrene	330	U	42	330
Pentachlorophenol	1000	U	99	1000
Pyrene	330	U	28	330
Chrysene	330	U	39	330
Benzo[k]fluoranthene	33	U	2.5	33
Benzo[g,h,i]perylene	330	U	25	330
Benzo[b]fluoranthene	33	U	2.1	33
Benzo[a]pyrene	33	U	2.3	33
Benzo[a]anthracene	33	U	2.3	33
N-Nitrosodiphenylamine	330	U	33	330
Butyl benzyl phthalate	330	U	30	330
Bis(2-ethylhexyl) phthalate	330	U	110	330
Di-n-octyl phthalate	330	U	21	330
Indeno[1,2,3-cd]pyrene	33	U	6.2	33
Dibenz(a,h)anthracene	33	U	4.2	33
3,3'-Dichlorobenzidine	670	U	120	670
1,2,4,5-Tetrachlorobenzene	330	U	45	330
2,3,4,6-Tetrachlorophenol	330	U	43	330

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	83	38 - 105
Phenol-d5	81	41 - 118
Terphenyl-d14	85	16 - 151
2,4,6-Tribromophenol	81	10 - 120
2-Fluorophenol	64	37 - 125
2-Fluorobiphenyl	78	40 - 109

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-157914

Method: 8270C
Preparation: 3541

Lab Sample ID:	LCS 460-157914/2-A	Analysis Batch:	460-158201	Instrument ID:	BNAMS10
Client Matrix:	Solid	Prep Batch:	460-157914	Lab File ID:	p36850.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.00 g
Analysis Date:	04/30/2013 1443	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	04/29/2013 1106			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	6670	4390	66	54 - 115	
2-Chlorophenol	6670	4510	68	56 - 110	
2-Methylphenol	6670	4630	69	54 - 117	
4-Methylphenol	6670	4940	74	47 - 103	
Benzaldehyde	3330	1020	31	10 - 160	
Acetophenone	3330	2600	78	40 - 95	
Bis(2-chloroethyl)ether	3330	2220	67	44 - 101	
2,2'-oxybis[1-chloropropane]	3330	2470	74	45 - 102	
N-Nitrosodi-n-propylamine	3330	2510	75	42 - 107	
Nitrobenzene	3330	2350	71	42 - 106	
Hexachloroethane	3330	2340	70	45 - 90	
Isophorone	3330	2350	70	48 - 97	
2-Nitrophenol	6670	4760	71	55 - 101	
2,4-Dimethylphenol	6670	4850	73	56 - 112	
2,4-Dichlorophenol	6670	4860	73	58 - 115	
Bis(2-chloroethoxy)methane	3330	2540	76	51 - 100	
Naphthalene	3330	2340	70	53 - 94	
4-Chloroaniline	3330	1410	42	10 - 96	
Hexachlorobutadiene	3330	2470	74	45 - 98	
Caprolactam	3330	2880	86	10 - 127	
4-Chloro-3-methylphenol	6670	4710	71	55 - 117	
2-Methylnaphthalene	3330	2420	73	51 - 98	
Hexachlorobenzene	3330	2650	80	43 - 104	
Hexachlorocyclopentadiene	3330	1900	57	24 - 98	
2,4,6-Trichlorophenol	6670	4590	69	53 - 118	
2,4,5-Trichlorophenol	6670	4600	69	50 - 115	
Diphenyl	3330	2330	70	50 - 105	
2-Chloronaphthalene	3330	2400	72	51 - 102	
2-Nitroaniline	3330	2170	65	51 - 109	
2,6-Dinitrotoluene	3330	2660	80	51 - 115	
Dimethyl phthalate	3330	2560	77	52 - 112	
Acenaphthylene	3330	2360	71	51 - 103	
3-Nitroaniline	3330	1840	55	32 - 104	
Acenaphthene	3330	2690	81	46 - 100	
4-Nitrophenol	6670	5510	83	45 - 114	
2,4-Dinitrophenol	6670	4530	68	10 - 129	
Dibenzofuran	3330	2380	72	52 - 106	
Diethyl phthalate	3330	2550	77	52 - 114	
Fluorene	3330	2420	73	51 - 108	
Fluoranthene	3330	2650	80	49 - 108	
Di-n-butyl phthalate	3330	2580	77	50 - 108	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-157914

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 460-157914/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/30/2013 1443
Prep Date: 04/29/2013 1106
Leach Date: N/A

Analysis Batch: 460-158201
Prep Batch: 460-157914
Leach Batch: N/A
Units: ug/Kg

Instrument ID: BNAMS10
Lab File ID: p36850.d
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-Dinitrotoluene	3330	2610	78	53 - 110	
4-Chlorophenyl phenyl ether	3330	2490	75	50 - 106	
4-Nitroaniline	3330	2020	61	45 - 106	
4,6-Dinitro-2-methylphenol	6670	5010	75	10 - 110	
4-Bromophenyl phenyl ether	3330	2540	76	44 - 102	
Atrazine	3330	1460	44	30 - 100	
Anthracene	3330	2520	76	50 - 107	
Carbazole	3330	2600	78	49 - 104	
Phenanthrene	3330	2490	75	48 - 108	
Pentachlorophenol	6670	5060	76	19 - 113	
Pyrene	3330	2390	72	49 - 116	
Chrysene	3330	2560	77	45 - 114	
Benzo[k]fluoranthene	3330	2380	71	35 - 115	
Benzo[g,h,i]perylene	3330	2340	70	43 - 106	
Benzo[b]fluoranthene	3330	2520	76	33 - 96	
Benzo[a]pyrene	3330	2510	75	36 - 89	
Benzo[a]anthracene	3330	2410	72	46 - 112	
N-Nitrosodiphenylamine	3330	2760	83	49 - 106	
Butyl benzyl phthalate	3330	2620	79	49 - 117	
Bis(2-ethylhexyl) phthalate	3330	2590	78	49 - 119	
Di-n-octyl phthalate	3330	2420	73	40 - 106	
Indeno[1,2,3-cd]pyrene	3330	2410	72	43 - 109	
Dibenz(a,h)anthracene	3330	2520	76	43 - 107	
3,3'-Dichlorobenzidine	3330	2030	61	24 - 105	
1,2,4,5-Tetrachlorobenzene	3330	2420	73	70 - 130	
2,3,4,6-Tetrachlorophenol	3330	2610	78	70 - 130	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	70	38 - 105
Phenol-d5	68	41 - 118
Terphenyl-d14	67	16 - 151
2,4,6-Tribromophenol	75	10 - 120
2-Fluorophenol	55	37 - 125
2-Fluorobiphenyl	68	40 - 109

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157884

Method: 8081A Preparation: 3546

Lab Sample ID: MB 460-157884/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/29/2013 1739
Prep Date: 04/29/2013 0841
Leach Date: N/A

Analysis Batch: 460-158065
Prep Batch: 460-157884
Leach Batch: N/A
Units: ug/Kg

Instrument ID: PESTGC4
Lab File ID: wr712575.d
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aldrin	6.7	U	1.4	6.7
alpha-BHC	6.7	U	1.5	6.7
beta-BHC	6.7	U	1.6	6.7
delta-BHC	6.7	U	1.2	6.7
gamma-BHC (Lindane)	6.7	U	1.2	6.7
Chlordane	67	U	19	67
4,4'-DDD	6.7	U	1.3	6.7
4,4'-DDE	6.7	U	1.3	6.7
4,4'-DDT	6.7	U	1.6	6.7
Dieldrin	6.7	U	1.2	6.7
Endosulfan I	6.7	U	1.5	6.7
Endosulfan II	6.7	U	1.3	6.7
Endosulfan sulfate	6.7	U	1.3	6.7
Endrin	6.7	U	1.6	6.7
Endrin aldehyde	6.7	U	1.0	6.7
Endrin ketone	6.7	U	1.3	6.7
Heptachlor	6.7	U	1.6	6.7
Heptachlor epoxide	6.7	U	1.5	6.7
Methoxychlor	6.7	U	1.6	6.7
Toxaphene	67	U	18	67

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	145	37 - 150
DCB Decachlorobiphenyl	147	60 - 150

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	128	37 - 150
DCB Decachlorobiphenyl	145	60 - 150

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-157884

Method: 8081A
Preparation: 3546

Lab Sample ID:	LCS 460-157884/2-A	Analysis Batch:	460-158065	Instrument ID:	PESTGC4
Client Matrix:	Solid	Prep Batch:	460-157884	Lab File ID:	wf712576.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.00 g
Analysis Date:	04/29/2013 1754	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/29/2013 0841			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aldrin	133	158	119	69 - 138	
alpha-BHC	133	156	117	68 - 133	
beta-BHC	133	155	116	67 - 137	
delta-BHC	133	154	116	65 - 141	
gamma-BHC (Lindane)	133	158	119	68 - 134	
4,4'-DDD	133	160	120	69 - 150	
4,4'-DDE	133	158	119	70 - 147	
4,4'-DDT	133	142	106	63 - 146	
Dieldrin	133	141	106	63 - 129	
Endosulfan I	133	158	118	69 - 140	
Endosulfan II	133	153	115	66 - 136	
Endosulfan sulfate	133	145	109	65 - 137	
Endrin	133	136	102	67 - 142	
Endrin aldehyde	133	158	118	67 - 134	
Endrin ketone	133	166	124	68 - 146	
Heptachlor	133	144	108	67 - 136	
Heptachlor epoxide	133	150	113	68 - 136	
Methoxychlor	133	120	90	52 - 150	
Surrogate	% Rec		Acceptance Limits		
Tetrachloro-m-xylene	157	*	37 - 150		
DCB Decachlorobiphenyl	158	*	60 - 150		

Lab Control Sample - Batch: 460-157884

Method: 8081A
Preparation: 3546

Lab Sample ID:	LCS 460-157884/2-A	Analysis Batch:	460-158065	Instrument ID:	PESTGC4
Client Matrix:	Solid	Prep Batch:	460-157884	Lab File ID:	wr712576.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.00 g
Analysis Date:	04/29/2013 1754	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/29/2013 0841			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aldrin	133	154	116	69 - 138	
alpha-BHC	133	148	111	68 - 133	
beta-BHC	133	154	115	67 - 137	
delta-BHC	133	152	114	65 - 141	
gamma-BHC (Lindane)	133	150	112	68 - 134	
4,4'-DDD	133	160	120	69 - 150	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-157884

Method: 8081A

Preparation: 3546

Lab Sample ID: LCS 460-157884/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/29/2013 1754
 Prep Date: 04/29/2013 0841
 Leach Date: N/A

Analysis Batch: 460-158065
 Prep Batch: 460-157884
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: PESTGC4
 Lab File ID: wr712576.d
 Initial Weight/Volume: 15.00 g
 Final Weight/Volume: 10 mL
 Injection Volume: 1 uL
 Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDE	133	153	115	70 - 147	
4,4'-DDT	133	140	105	63 - 146	
Dieldrin	133	140	105	63 - 129	
Endosulfan I	133	153	114	69 - 140	
Endosulfan II	133	146	110	66 - 136	
Endosulfan sulfate	133	141	106	65 - 137	
Endrin	133	136	102	67 - 142	
Endrin aldehyde	133	156	117	67 - 134	
Endrin ketone	133	166	124	68 - 146	
Heptachlor	133	138	104	67 - 136	
Heptachlor epoxide	133	150	113	68 - 136	
Methoxychlor	133	112	84	52 - 150	
Surrogate	% Rec		Acceptance Limits		
Tetrachloro-m-xylene	146		37 - 150		
DCB Decachlorobiphenyl	155	*	60 - 150		

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157879

Method: 8082

Preparation: 3546

Lab Sample ID: MB 460-157879/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/29/2013 1351
 Prep Date: 04/29/2013 0821
 Leach Date: N/A

Analysis Batch: 460-157872
 Prep Batch: 460-157879
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: CPESTGC7
 Lab File ID: OR202379.D
 Initial Weight/Volume: 15.00 g
 Final Weight/Volume: 10 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	67	U	15	67
Aroclor 1221	67	U	15	67
Aroclor 1232	67	U	15	67
Aroclor 1242	67	U	15	67
Aroclor 1248	67	U	15	67
Aroclor 1254	67	U	19	67
Aroclor 1260	67	U	19	67
Aroclor 1262	67	U	19	67
Aroclor 1268	67	U	19	67
Polychlorinated biphenyls, Total	67	U	19	67

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	128	45 - 138
Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	119	45 - 138

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Lab Control Sample - Batch: 460-157879

Method: 8082

Preparation: 3546

Lab Sample ID: LCS 460-157879/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/29/2013 1335
Prep Date: 04/29/2013 0821
Leach Date: N/A

Analysis Batch: 460-157872
Prep Batch: 460-157879
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CPESTGC7
Lab File ID: OR202378.D
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	333	366	110	75 - 150	
Aroclor 1260	333	414	124	72 - 150	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	121		45 - 138		

Lab Control Sample - Batch: 460-157879

Method: 8082

Preparation: 3546

Lab Sample ID: LCS 460-157879/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/29/2013 1335
Prep Date: 04/29/2013 0821
Leach Date: N/A

Analysis Batch: 460-157872
Prep Batch: 460-157879
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CPESTGC7
Lab File ID: OR202378.D
Initial Weight/Volume: 15.00 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	333	336	101	75 - 150	
Aroclor 1260	333	336	101	72 - 150	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	116		45 - 138		

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157700

Method: 6010B

Preparation: 3050B

Lab Sample ID: MB 460-157700/1-A ^2
 Client Matrix: Solid
 Dilution: 2.0
 Analysis Date: 04/27/2013 2044
 Prep Date: 04/26/2013 1810
 Leach Date: N/A

Analysis Batch: 460-157806
 Prep Batch: 460-157700
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: ICP5
 Lab File ID: 04282013.asc
 Initial Weight/Volume: 1.00 g
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	9.1	20.0
Antimony	1.0	U	0.62	1.0
Arsenic	0.50	U	0.47	0.50
Barium	20.0	U	0.57	20.0
Beryllium	0.20	U	0.072	0.20
Cadmium	0.50	U	0.074	0.50
Calcium	500	U	35.4	500
Chromium	1.0	U	0.43	1.0
Cobalt	5.0	U	0.43	5.0
Copper	2.5	U	0.97	2.5
Iron	15.0	U	6.1	15.0
Lead	0.50	U	0.43	0.50
Magnesium	500	U	36.0	500
Manganese	1.5	U	0.44	1.5
Nickel	4.0	U	0.44	4.0
Potassium	500	U	53.5	500
Selenium	1.0	U	0.66	1.0
Silver	1.0	U	0.10	1.0
Sodium	500	U	79.0	500
Thallium	1.0	U	0.57	1.0
Vanadium	5.0	U	0.38	5.0
Zinc	3.0	U	0.54	3.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

LCS-Certified Reference Material - Batch: 460-157700

Method: 6010B

Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	460-157806	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-157700	Lab File ID:	04282013.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/27/2013 2055	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/26/2013 1810				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9310	8810	94.6	43.3 - 156.8	
Antimony	120	74.42	62.0	20.8 - 252.5	
Arsenic	168	160.0	95.2	70.8 - 129.8	
Barium	213	218.0	102.3	73.2 - 126.8	
Beryllium	110	105.3	95.7	75.1 - 125.5	
Cadmium	103	101.1	98.1	73.0 - 126.2	
Calcium	6870	6586	95.9	74.4 - 125.8	
Chromium	119	118.1	99.3	69.7 - 129.4	
Cobalt	131	137.3	104.8	74.4 - 125.2	
Copper	118	112.4	95.3	74.6 - 124.6	
Iron	13000	12550	96.5	32.2 - 167.7	
Lead	76.9	79.70	103.6	68.7 - 131.3	
Magnesium	2780	2594	93.3	65.1 - 135.3	
Manganese	338	341.2	100.9	75.4 - 125.1	
Nickel	70.0	72.68	103.8	70.9 - 129.0	
Potassium	3130	2680	85.6	62.9 - 136.7	
Selenium	126	122.0	96.9	66.7 - 134.1	
Silver	42.3	38.36	90.7	66.2 - 134.0	
Sodium	350	310.6	88.7	42.9 - 156.9	J
Thallium	208	226.4	108.8	69.2 - 130.8	
Vanadium	87.1	83.74	96.1	63.1 - 136.6	
Zinc	276	278.0	100.7	71.4 - 128.6	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157810

Method: 7471A Preparation: 7471A

Lab Sample ID: MB 460-157810/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/28/2013 1547
Prep Date: 04/28/2013 1054
Leach Date: N/A

Analysis Batch: 460-157837
Prep Batch: 460-157810
Leach Batch: N/A
Units: mg/Kg

Instrument ID: LEEMAN5
Lab File ID: 157810.PRN
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.012	0.017

LCS-Certified Reference Material - Batch: 460-157810

Method: 7471A Preparation: 7471A

Lab Sample ID: LCSSRM
Client Matrix: Solid
Dilution: 50
Analysis Date: 04/28/2013 1549
Prep Date: 04/28/2013 1054
Leach Date: N/A

Analysis Batch: 460-157837
Prep Batch: 460-157810
Leach Batch: N/A
Units: mg/Kg

Instrument ID: LEEMAN5
Lab File ID: 157810.PRN
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	25.1	24.17	96.3	51.4 - 148.2	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-54976-1

Method Blank - Batch: 460-157815

Method: 7471A Preparation: 7471A

Lab Sample ID: MB 460-157815/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/28/2013 1812
Prep Date: 04/28/2013 1225
Leach Date: N/A

Analysis Batch: 460-157837
Prep Batch: 460-157815
Leach Batch: N/A
Units: mg/Kg

Instrument ID: LEEMAN5
Lab File ID: 157810.PRN
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.012	0.017

LCS-Certified Reference Material - Batch: 460-157815

Method: 7471A Preparation: 7471A

Lab Sample ID: LCSSRM
Client Matrix: Solid
Dilution: 50
Analysis Date: 04/28/2013 1814
Prep Date: 04/28/2013 1225
Leach Date: N/A

Analysis Batch: 460-157837
Prep Batch: 460-157815
Leach Batch: N/A
Units: mg/Kg

Instrument ID: LEEMAN5
Lab File ID: 157810.PRN
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	25.1	25.29	100.8	51.4 - 148.2	

460-54976 Chain of

05/16/2013

54976

Number of Coolers:	IR Gun #
Temp. Cooler #1 (Deg C) (Raw/Corrected)	Temp. Cooler #4 (Deg C) (Raw/Corrected)
Temp. Cooler #2 (Deg C) (Raw/Corrected)	Temp. Cooler #5 (Deg C) (Raw/Corrected)
Temp. Cooler #3 (Deg C) (Raw/Corrected)	Temp. Cooler #6 (Deg C) (Raw/Corrected)
	Temp. Cooler #7 (Deg C) (Raw/Corrected)
	Temp. Cooler #8 (Deg C) (Raw/Corrected)
	Temp. Cooler #9 (Deg C) (Raw/Corrected)

[illegible]

If pH adjustments are required record the information below.

Sample No(s). adjusted:

Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative: _____

Expiration Date: _____

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-54976-1

Login Number: 54976

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	710373
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4° C IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.