

2552 Route 89

TOWN OF SENECA FALLS, SENECA COUNTY, NEW YORK

Subsurface (Phase II) Investigation

AKRF Project Number: 40212

Prepared for:

Cayuga Indian Nation
P.O. Box 11
Versailles, NY 14168

Prepared by:



440 Park Avenue South, 7th Floor
New York, New York 10016
212-696-0670

APRIL 2009

TABLE OF CONTENTS

1.0	Introduction	1
2.0	Site Background	1
2.1	Previous Environmental Investigations	1
3.0	Field Activities	3
3.1	Soil Borings.....	3
4.0	Investigation Results	3
4.1	Field Observations	3
4.2	Soil Analytical Results.....	4
5.0	Conclusions and Recommendations	4
6.0	Limitations	6

TABLES

Table 1 – Soil Laboratory Analytical Results for Volatile Organic Compounds

FIGURES

Figure 1 - Site Location Map

Figure 2 - Site Plan

APPENDICES

Appendix A - Soil Boring Logs

Appendix B – Laboratory Analytical Report

1.0 INTRODUCTION

Between March 20 and 21, 2009, AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at 2552 Route 89 in the Town of Seneca Falls, New York (Site). A site location map is provided as Figure 1. The Phase II investigation was intended to determine whether current or former on- or off-site activities had adversely affected environmental conditions at the Site. The scope of work was based on the findings of AKRF's Phase I Environmental Site Assessment (ESA), dated April 2009 and a Phase I ESA, dated September 2003, prepared by Environmental Compliance Management Corporation (ECMC). The Phase II scope included the drilling of five soil borings and the collection of soil samples for field screening and laboratory analysis. This report describes methods and results of the Phase II investigation conducted by AKRF.

2.0 SITE BACKGROUND

2.1 Previous Environmental Investigations

2552 Route 89 Phase I Environmental Site Assessment, AKRF, Inc., April 2009

A Phase I ESA was conducted at the study site by AKRF in April 2009. Recognized Environmental Conditions identified in this investigation included the following:

- The Property comprised a convenience store, gasoline filling station, and an asphalt-paved parking lot. Historical uses of the Property include an auto dealership and gasoline filling station, which was reported as operating sometime between 1960 and 1980, and the previous underground tanks were removed and replaced in 1992. The past and current use of the Property as a gasoline filling station could potentially have caused a release of petroleum contamination to soil or groundwater. The underground storage tank leak detection system reported in the environmental database for the tanks currently in use at the Property did not indicate any releases of petroleum; however, undocumented spills could have contaminated soil and groundwater beneath the site. Registration for the current USTs was not up to date with the NYSDEC, and the compliance status should be further evaluated and addressed, as warranted. In addition, there was no documentation found for maintenance, leak detection, product inventory records, closure sampling related to the former underground tanks, activities related to the former dealership, or potential structures (dry wells, septic systems) related to the former site building.
- Seneca Falls Quickway #38, a previous owner located on the Property, was listed in the Petroleum Bulk Storage database for three in-service gasoline underground storage tanks (USTs) of 15,000, 10,000, and 5,000-gallon capacities. However, according to the regulatory database, the 15,000-gallon tank have been reassigned or deleted from the reported data. It is estimated that the 15,000-gallon tanks was reassigned as two tanks (one 10,000-gallon and one 5,000-gallon UST). The existence of two gasoline tanks (one 10,000-gallon and one 5,000-gallon UST) was confirmed during the site inspection. The tanks stored gasoline for vehicle refueling through two dispenser pumps attached to one concrete island
- Seneca Falls Quickway #38, a previous owner located at the Property, was listed in the New York SPILLS Database with a closed status spill on January 8, 1998. The release was reported to have been due to a gasoline release from a customer's vehicle. The quantity spilled was listed as 3 gallons. The release was reported to have been cleaned with speedy dry (absorbent) and the case achieved a closed regulatory status on the same date.

- Route 89 in Seneca Falls, potentially on the Property, was listed as being an Emergency Response Notification System (ERNS) site for one spill on June 25, 1987. The spill was reported to have been due to a 5-gallon bucket leaking from a freight truck on the highway (Route 89). The quantity spilled was listed as 5 gallons of corrosive liquid nitrogen. No material was released into surrounding waterways.
- Monteverdi (William) Home, located approximately 250 feet southeast of the Site was listed in the New York SPILLS Database with a closed status spill in July of 1995 when a DEC representative noticed various containers and chemicals were being stored at the property and some spillage had occurred. No material information was given for the spill. Based on the limited information available, past site inspection, and the age of the spill, no further action was required. The spill was closed in September of 2006.
- Cayuga Lake State Park, located at 2664 Lower Lake Road approximately 720 feet south-southwest of the Property, was listed in the New York SPILLS Database for four spills. The property was listed with a closed status tank failure in June of 1998. A 1,000-gallon underground storage tank was noticed to be leaking. Zero gallons were reported to have spilled. Contaminated soil was properly disposed and the UST was replaced by a 500-gallon aboveground storage tank. The spill was closed in February of 1992. A spill was reported in February of 1999 due to a closure report of a 1,000-gallon gasoline tank storage removal that included laboratory results of soil sample levels above laboratory detection limits but below stars guidance values. The closure report was reviewed and no further action was deemed necessary. The spill was closed in June of 1999. A spill was also reported in July of 2003 due to a report that an unknown person places washed clothes in a sewer line which clogged the line and caused it to overflow from a manhole. Zero gallons of raw sewage were reported in the spill. Based on a review of the database, no further action was deemed necessary. The spill was closed in October of 2003. The site was also listed with a closed status spill in March of 1996 when 3 gallons of hydraulic oil were released onto the surrounding land and a storm sewer when the hydraulic line on a lumber truck broke. The spill was cleaned up with sawdust and impacted leaves were collected. No sheens were detected on the lake, no further action was deemed necessary and the spill was closed on the same day.
- New York State Office of Parks, Recreation, and Historic Preservation, located in Cayuga Lake State Park, approximately 810 feet south-southwest of the Property, was listed in the Petroleum Bulk Storage database for four 1,000-gallon gasoline underground storage tanks that were either closed and removed or closed prior to micro conversion, one 500-gallon diesel aboveground storage tank (AST) that was closed and removed, one in-service 1,000-gallon gasoline AST, and one in-service 500-gallon diesel AST.

A Phase II investigation was recommended to determine whether the current or historical uses of the study site and the surrounding properties have affected on-site environmental conditions.

2552 Route 89 Phase I Environmental Site Assessment, Environmental Compliance Management Corporation, September 2003

A Phase I ESA was conducted at the Quickway store at the study site by Environmental Compliance Management Corporation (ECMC) in September 2003. While the site uses could be associated with petroleum contamination and ECMC observed limited staining on paved parking areas, ECMC found soil contaminant levels to be within acceptable limits. ECMC noted the presence of one underground gasoline storage tank on the site. ECMC noted that there was no

record of spills or leaks at the site. No Recognized Environmental Conditions were identified by ECMC at the site.

3.0 FIELD ACTIVITIES

3.1 Soil Borings

Between March 20 and 21, 2009, Paragon Environmental Construction, Inc., of Brewerton, New York advanced five soil borings (SB-1 through SB-5) at the Site, as shown on Figure 2. The borings were located adjacent to areas identified in the Phase I investigation as having a potential to have released contamination to the surrounding media, which included USTs, and gasoline dispenser lines and pumps. The soil borings were advanced using a truck-mounted Geoprobe® direct push probe (DPP) unit. Continuous soil samples were collected from each boring using four-foot long, two-inch diameter, macrocore piston rod samplers fitted with acetate liners. The soil borings were advanced to depths ranging from 14 to 23.5 feet below grade. Refusal was encountered at all locations at a depth above groundwater. When shallow refusal was encountered, if feasible, the drilling rig was moved a few feet and a new boring was drilled with a goal of reaching a depth below the adjacent structure (i.e., USTs). The cause of refusal was evaluated as being due to soil conditions (see Section 4.1), as such, boring efforts at each location were abandoned when refusal was encountered at a dense till layer. The maximum depth was 23.5 feet below grade at refusal. Soil boring logs are provided in Appendix A.

Each sample was split lengthwise and logged by AKRF field personnel. Logging consisted of: describing the soil according to the modified Burmister Classification System; describing any evidence of contamination (e.g., staining, sheens, odors); and screening the soil for organic vapors using a photoionization detector (PID) in one-foot intervals. One soil sample from each boring was selected for laboratory analysis based on PID response and visual indications of contamination. Groundwater was not encountered in the soil borings.

Soil samples designated for laboratory analysis were collected using dedicated sampling equipment, placed into laboratory-supplied containers and a chilled cooler, and submitted via courier to Alpha Analytical located in Westborough, New Jersey, a New York State-certified laboratory. Soil samples were analyzed for VOCs by EPA Method 8260.

One duplicate sample and one trip blank accompanied the sample shipment and were analyzed for VOCs by EPA Method 8260 for quality assurance/quality control (QA/QC) purposes.

4.0 INVESTIGATION RESULTS

4.1 Field Observations

Soil encountered during this investigation consisted of glacial till that contained varying amounts of clay, sand, and gravel. Asphalt and crushed rock were also present in the upper sections of the soil column, indicating that the fill material was present in the upper five feet across the site. At each boring location, refusal was encountered between 14 and 23.5 feet below grade, above the groundwater table, mostly due to the density of the glacial till layer and encountering expanding clay and sand. Although additional boring locations were attempted, soil conditions were such that groundwater was not encountered during the investigation.

Recovered soil at each boring was transferred from the sampler into sealable plastic bags. The headspace of each sample was screened for VOCs by placing the probe of a Model 580B PID inside the plastic bags. No headspace readings were detected by the PID above background in the soil borings. Modest petroleum-type odors were noted in SB-1 (0 to 4 feet) and SB-2 (4 to 8 feet); petroleum odors were not noted in the remaining soil samples. No other evidence (staining or PID readings) were noted on the screened soil. Based on the field screening results, the sample from the zone on observed contamination, or if contamination was not observed, the sample was collected from the bottom of the boring. Soil descriptions, observations, and PID readings were recorded on the soil boring logs provided in Appendix A.

4.2 Soil Analytical Results

Five discrete soil samples, one from each of the five borings (SB-1(7-8), SB-2(5-6), SB-3(13-14), SB-4(13-14), and SB-5 (12-13)), were collected for laboratory analysis as part of this investigation. Soil sample analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Soil Cleanup Objectives (SCOs) for Unrestricted Use which represents the lowest value of residential, protection of groundwater, and protection of ecological resources for VOCs. The laboratory analytical report is included in Appendix B. Soil analytical results are presented in Table 1.

Soil analytical results for VOCs are presented in Table 1. VOCs were detected in two of the five soil samples. Soil sample SB-1, which was located on the downgradient edge of the USTs, had low detections of 1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 4-ethyltoluene, ethylbenzene, isopropylbenzene, n-propylbenzene, and xylenes at concentrations ranging from 0.0046 to 0.051 milligrams per kilogram (mg/kg). These concentrations were below their respective Part 375 SCOs. Acetone was detected in sample SB-2 (5-6') below its respective SCO. No other VOCs were detected in the soil samples.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Between March 20 and 21, 2009, AKRF completed a Phase II Subsurface Investigation at the Lakeside gasoline station located at 2552 Route 89, Town of Seneca Falls, New York. The investigation consisted of drilling five soil borings to depths ranging from 14 to 23.5 feet below grade, collection of continuous soil samples from each boring, field screening each soil sample for evidence of contamination, and laboratory analysis of a selected soil sample from each boring. In general, soil samples were localized in and around known areas of petroleum use (i.e. underground tanks and the dispenser pump island).

Soil encountered during this investigation consisted of glacial till that contained varying amounts of sand, clay, sand, and gravel. Asphalt and crushed rock were also present in the upper five feet, indicating the presence of fill material. Soil conditions (discussed in Section 4.1) were such that groundwater was not encountered during the investigation. Based on topography, groundwater most likely flows to the east toward Cayuga Lake, located approximately 900 feet east of the Site, and estimated to be encountered around 30 feet below grade.

Field screening results indicated petroleum staining was not observed and VOCs were not detected with the PID. Laboratory analysis indicated that low levels of VOCs, including 1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 4-ethyltoluene, ethylbenzene, isopropylbenzene, n-propylbenzene, and xylenes, were detected in SB-1 (located on the downgradient edge of the USTs) at concentrations well below the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for Unrestricted Use which represents the lowest value of residential, protection of groundwater, and protection of ecological resources. The nature and

levels of VOCs detected in the samples appear to be attributable to the use of the site as a gas station and do not indicate a significant release of petroleum in soil. The status of groundwater remains unknown. Overall, the investigation data did not identify any areas that have been adversely affected by current or former on-site operations.

Despite the lack of significant environmental impacts identified by this study, concentrations of certain VOCs were detected in the soil samples analyzed. The elevated levels are likely reflective of small amounts of petroleum spilled during usage. If such material is excavated as part of any future site development activities at the site, it should be managed in accordance with all applicable state and federal regulations. Soil intended for off-site disposal should be tested in accordance with the requirements of the receiving facility. Transportation of material leaving the site for off-site disposal should be in accordance with federal, state and local requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.

6.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by Cayuga Indian Nation. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

TABLES

Table 1
Cayuga Indian Nation
Seneca Falls, NY
Subsurface Investigation Soil Analytical Results
Notes

GENERAL

NS : No soil cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

Exceedences are highlighted in bold font.

Part 375
Soil
Cleanup
Objectives : Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

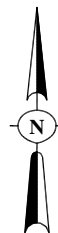
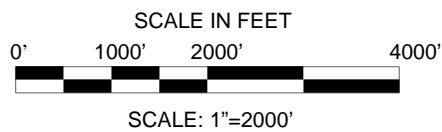
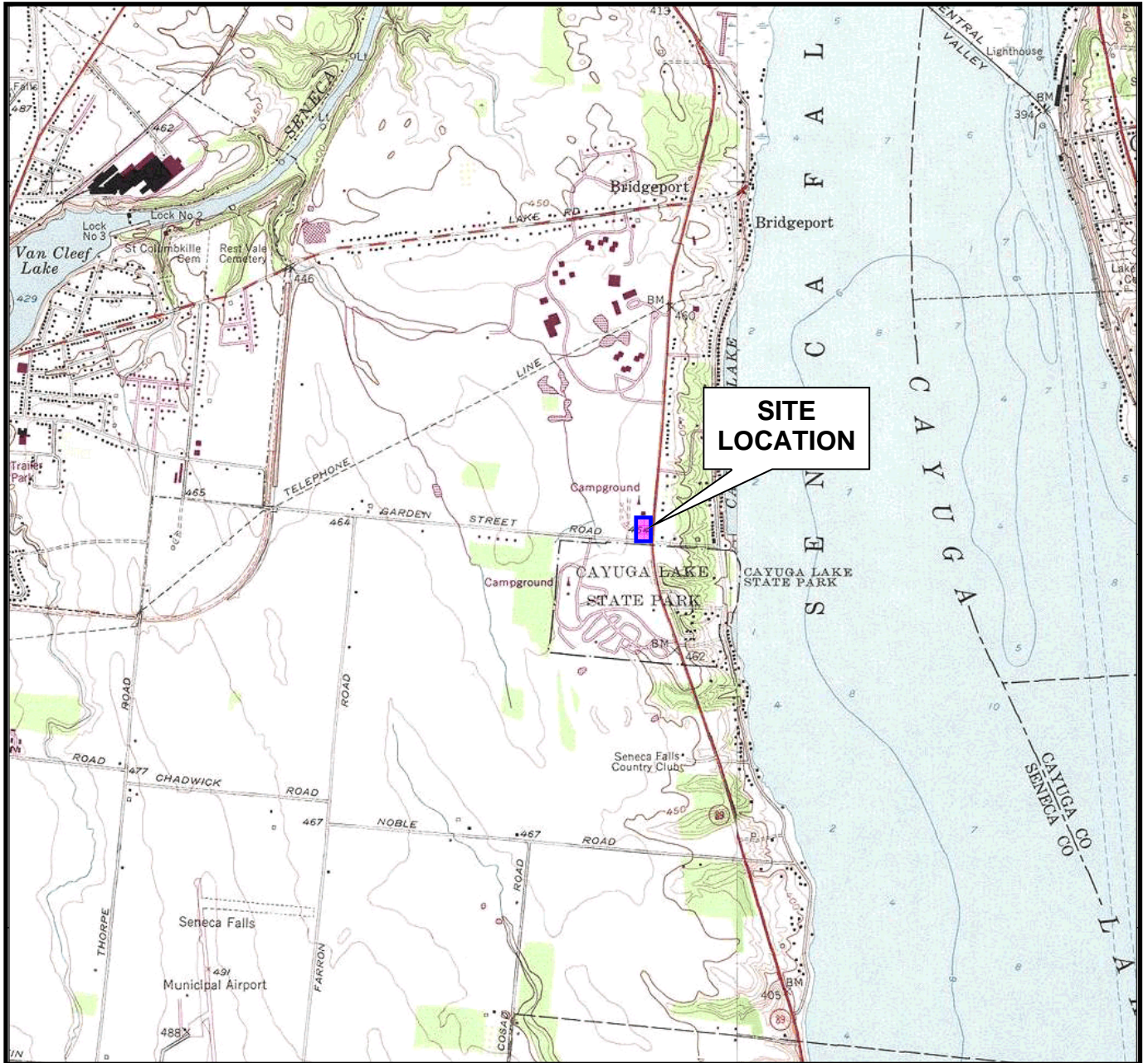
mg/kg : milligrams per kilogram = parts per million (ppm)

Table 1
Cayuga Indian Nation
Seneca Falls, NY

Subsurface Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted Use	SB-1 (7-8') L0903479-01 3/20/2009	SB-2 (5-6') L0903479-02 3/20/2009	SB-3 (13-14') L0903479-03 3/20/2009	SB-4 (13-14') L0903479-05 3/21/2009	SB-5 (12-13') L0903479-04 3/21/2009	DUPLICATE L0903479-06 3/21/2009
mg/kg							
1,1,1,2-Tetrachloroethane	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
1,1,1-Trichloroethane	0.68	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
1,1,2,2-Tetrachloroethane	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
1,1,2-Trichloroethane	NS	0.0046 U	0.0041 U	0.0041 U	0.0042 U	0.0044 U	0.0042 U
1,1-Dichloroethane	0.27	0.0046 U	0.0041 U	0.0041 U	0.0042 U	0.0044 U	0.0042 U
1,1-Dichloroethene	0.33	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
1,1-Dichloropropene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-Trichlorobenzene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-Trichloropropane	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
1,2,4,5-Tetramethylbenzene	NS	0.014	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U
1,2,4-Trichlorobenzene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,4-Trimethylbenzene	3.6	0.051	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dibromo-3-chloropropane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dibromoethane	NS	0.012 U	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U
1,2-Dichlorobenzene	1.1	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dichloroethane	0.02	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
1,2-Dichloropropane	NS	0.011 U	0.0096 U	0.0096 U	0.0097 U	0.01 U	0.0097 U
1,3,5-Trimethylbenzene	8.4	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3-Dichlorobenzene	2.4	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3-Dichloropropane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,4-Dichlorobenzene	1.8	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,4-Diethylbenzene	NS	0.012 U	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U
2,2-Dichloropropane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
2-Butanone	0.12	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
2-Hexanone	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
4-Ethyltoluene	NS	0.023	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U
4-Methyl-2-pentanone	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Acetone	0.05	0.031 U	0.041	0.027 U	0.028 U	0.029 U	0.028 U
Acrylonitrile	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Benzene	0.06	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Bromobenzene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Bromochloromethane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Bromodichloromethane	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Bromoform	NS	0.012 U	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U
Bromomethane	NS	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
Carbon disulfide	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Carbon tetrachloride	0.76	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Chlorobenzene	1.1	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Chloroethane	NS	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
Chloroform	0.37	0.0046 U	0.0041 U	0.0041 U	0.0042 U	0.0044 U	0.0042 U
Chloromethane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
cis-1,2-Dichloroethene	0.25	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
cis-1,3-Dichloropropene	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Dibromochloromethane	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Dibromomethane	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Dichlorodifluoromethane	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Ethylbenzene	1	0.0046	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Hexachlorobutadiene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Isopropylbenzene	NS	0.014	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Methyl tert butyl ether	0.93	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
Methylene chloride	0.05	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Naphthalene	12	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
n-Butylbenzene	12	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
n-Propylbenzene	3.9	0.016	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
o-Chlorotoluene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
o-Xylene	0.26	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
p/m-Xylene	0.26	0.023	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
p-Chlorotoluene	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
p-Isopropyltoluene	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
sec-Butylbenzene	11	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Styrene	NS	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U
tert-Butylbenzene	5.9	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Tetrachloroethene	1.3	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Toluene	0.7	0.0046 U	0.0041 U	0.0041 U	0.0042 U	0.0044 U	0.0042 U
trans-1,2-Dichloroethene	0.19	0.0046 U	0.0041 U	0.0041 U	0.0042 U	0.0044 U	0.0042 U
trans-1,3-Dichloropropene	NS	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Trichloroethene	0.47	0.0031 U	0.0027 U	0.0027 U	0.0028 U	0.0029 U	0.0028 U
Trichlorofluoromethane	NS	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Vinyl acetate	NS	0.031 U	0.027 U	0.027 U	0.028 U	0.029 U	0.028 U
Vinyl chloride	0.02	0.0062 U	0.0055 U	0.0055 U	0.0056 U	0.0058 U	0.0056 U

FIGURES



SOURCE:
7.5 MINUTE SERIES USGS TOPOGRAPHIC MAP
QUADRANGLE: SENECA FALLS, NY 1978

2552 ROUTE 89
SENECA FALLS, NEW YORK

PROJECT SITE LOCATION



Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
4.06.08

PROJECT No.
40212

SCALE
as shown

FIGURE
1



SCALE IN FEET

LEGEND:

- PROJECT SITE BOUNDARY
- SB-5
SOIL BORING LOCATION

2552 ROUTE 89
SENECA FALLS, NEW YORK

PHASE II SITE PLAN DETAIL



Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016


DATE
4.22.09


PROJECT No.
40212


SCALE
as shown


FIGURE
2


APPENDIX A
SOIL BORING LOGS

SOIL BORING LOG			2552 Route 89, Seneca Falls, NY AKRF Project Number: 40212		Boring No. SB-1 Sheet 1 of 1														
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942			Drilling Method: Geoprobe Sampling Method: Macrocore Driller : Paragon Sampler: AKRF/ Kerry Gallagher		Drilling <table border="1"> <tr> <td>Start Time</td> <td>8:30</td> <td>Finish Time</td> <td>10:45</td> </tr> <tr> <td colspan="4">Date 3/20/2009</td> </tr> <tr> <td colspan="4">Weather: 40°F, Clear skies</td> </tr> </table>			Start Time	8:30	Finish Time	10:45	Date 3/20/2009				Weather: 40°F, Clear skies			
Start Time	8:30	Finish Time	10:45																
Date 3/20/2009																			
Weather: 40°F, Clear skies																			
Depth (feet)	Recovery (Inches)	Soil Type	Surface Condition: Asphalt	Odor	Moisture	PID	Samples Collected for Lab Analysis												
1	42		Top 6": ASPHALT PAVEMENT, some Gravel.	Slight	Slightly Moist	ND													
2			Bottom 36": Reddish brown CLAY and GRAVEL, trace fine gray Sand.																
3																			
4																			
5	38		Top 14": Brown CLAY, trace Gravel.	None	Slightly Moist	ND	SB-1(7-8')												
6			Bottom 24": Brown CLAY, some Gravel, trace brown fine Sand.																
7																			
8																			
9	34		Top 10": Brown CLAY and GRAVEL.	None	Dry	ND													
10			Bottom 20": Brown CLAY, some Gravel.																
11																			
12								Bottom 4": Brown medium SAND.											
13	40		40": Brown medium SAND.	None	Slightly Moist	ND													
14																			
15																			
16																			
17	44		Top 12": Brown CLAY, trace Gravel.	None	Dry	ND													
18			Bottom 32": Gray fine SAND.																
19																			
20																			
21	20		20": Gray fine SAND.	None	Dry	ND													
22																			
23																			
Notes: Macrocore refusal at 23.5 feet due to dense sand/glacial till.																			

SOIL BORING LOG			2552 Route 89, Seneca Falls, NY AKRF Project Number: 40212		Boring No. SB-2 Sheet 1 of 1		
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942			Drilling Method: Geoprobe Sampling Method: Macrocore Driller : Paragon Sampler: AKRF/ Kerry Gallagher		Drilling Start Time 11:15 Finish Time 14:30 Date 3/20/2009 Weather: 40°F, Clear skies		
Depth (feet)	Recovery (Inches)	Soil Type	Surface Condition: Asphalt	Odor	Moisture	PID	Samples Collected for Lab Analysis
1 2 3 4	36		Top 6": ASPHALT PAVEMENT, trace Gravel. Bottom 30": Brown CLAY, trace GRAVEL.	None	Slightly Moist	ND	
5 6 7 8	24		24": Brown CLAY and GRAVEL, trace fine gray SAND.	Slight	Dry	ND	SB-2(5-6')
9 10 11 12	36		36": Brown CLAY, some Gravel.	None	Dry	ND	
13 14 15 16	40		40": Brown CLAY, some Gravel, trace brown fine Sand.	None	Dry	ND	
17 18 19 20 21 22							
Notes: Macrocore refusal at 16 feet due to expanding clay/dense glacial till.							

SOIL BORING LOG			2552 Route 89, Seneca Falls, NY AKRF Project Number: 40212		Boring No. SB-3 Sheet 1 of 1		
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942			Drilling Method: Geoprobe Sampling Method: Macrocore Driller : Paragon Sampler: AKRF/ Kerry Gallagher		Drilling Start Time 14:45 Finish Time 16:15 Date 3/20/2009 Weather: 40°F, Clear skies		
Depth (feet)	Recovery (Inches)	Soil Type	Surface Condition: Asphalt	Odor	Moisture	PID	Samples Collected for Lab Analysis
1	36		Top 6": ASPHALT PAVEMENT, trace Gravel.	None	Slightly Moist	ND	
2			Bottom 30": Reddish brown CLAY, some medium brown Sand, trace GRAVEL.				
3							
4							
5	48		Top 24": Brown CLAY, some Gravel, trace fine Sand.	None	Dry	ND	
6			Bottom 24": Brown CLAY, some Gravel.				
7							
8							
9	44		Top 24": Brown CLAY, some fine Sand and Gravel.	None	Dry	ND	
10			Bottom 20": Brown CLAY, some Gravel.				
11							
12							
13	16		16": Brown CLAY, some GRAVEL.	None	Dry	ND	SB-3 (13-14')
14							
15							
16							
17							
18							
19							
20							
21							
22							
Notes: Macrocore refusal at 14 feet due to expanding clay/dense glacial till.							

SOIL BORING LOG			2552 Route 89, Seneca Falls, NY AKRF Project Number: 40212		Boring No. SB-4 Sheet 1 of 1		
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942			Drilling Method: Geoprobe Sampling Method: Macrocore Driller : Paragon Sampler: AKRF/ Kerry Gallagher		Drilling Start Time 8:30 Finish Time 10:15 Date 3/21/2009 Weather: 35°F, Clear skies		
Depth (feet)	Recovery (Inches)	Soil Type	Surface Condition: Asphalt	Odor	Moisture	PID	Samples Collected for Lab Analysis
1 2 3 4	48		Top 6": ASPHALT PAVEMENT, trace Gravel. Bottom 42": Brown medium SAND, some Gravel.	None	Moist	ND	
5 6 7 8	42		Top 16": Brown CLAY, some brown fine Sand, trace Gravel. Bottom 26": Brown CLAY, some Gravel, trace brown fine Sand.	None	Slightly Moist	ND	
9 10 11 12	38		38": Brown CLAY, some Gravel.	None	Dry	ND	
13 14	20		20": Brown CLAY, some Gravel.	None	Dry	ND	SB-4(13-14')
15 16 17 18 19 20 21 22							
Notes: Macrocore refusal at 14 feet due to encountering a dense obstruction.							

SOIL BORING LOG			2552 Route 89, Seneca Falls, NY AKRF Project Number: 40212		Boring No. SB-5 Sheet 1 of 1		
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942			Drilling Method: Geoprobe Sampling Method: Macrocore Driller : Paragon Sampler: AKRF/ Kerry Gallagher		Drilling Start Time 10:30 Finish Time 12:20 Date 3/21/2009 Weather: 35°F, Clear skies		
Depth (feet)	Recovery (Inches)	Soil Type	Surface Condition: Asphalt	Odor	Moisture	PID	Samples Collected for Lab Analysis
1 2 3 4	48		Top 10": ASPHALT PAVEMENT, some brown Clay, trace Gravel. Bottom 38": Brown fine SAND, some Gravel.	None	Moist	ND	
5 6 7 8	44		Top 24": Reddish brown CLAY, trace fine Sand and Gravel. Middle 12": Brown CLAY, some Gravel. Bottom 8": Brown CLAY, some Gravel, trace brown Sand.	None	Moist	ND	
9 10 11 12	20		Top 10": Brown CLAY and GRAVEL. Bottom 10": Brown CLAY, some Gravel, trace fine brown Sand.	None	Dry	ND	
13 14 15 16	24		24": Brown CLAY and GRAVEL.	None	Slightly Moist	ND	SB-5 (12-13')
17 18	12		12": Brown CLAY and GRAVEL.	None	Dry	ND	
19 20 21 22							
Notes: Macrocore refusal at 18 feet due to expanding clay/dense glacial till.							

APPENDIX B
LABORATORY ANALYTICAL DATA SHEETS

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: AKRF, Inc. Laboratory Job Number: L0903479
Address: 440 Park Avenue South Date Received: 23-MAR-2009
New York, NY 10016 Date Reported: 27-MAR-2009
Attn: Ms. Kerry Gallagher Delivery Method: Alpha
Project Number: 40212 Site: 2552 ROUTE 89

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0903479-01	SB-1 (7-8')	SENECA FALLS, NY
L0903479-02	SB-2 (5-6')	SENECA FALLS, NY
L0903479-03	SB-3 (13-14')	SENECA FALLS, NY
L0903479-04	SB-5 (12-13')	SENECA FALLS, NY
L0903479-05	SB-4 (13-14')	SENECA FALLS, NY
L0903479-06	DUPLICATE	SENECA FALLS, NY
L0903479-07	TRIP BLANK	SENECA FALLS, NY

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0903479

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-01	Date Collected: 20-MAR-2009 10:45
SB-1 (7-8')	Date Received : 23-MAR-2009
Sample Matrix: SOIL	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	81	%	0.10	30 2540G		0324 22:00 JO
Volatile Organics by GC/MS - Westborough Lab				1 8260B		0324 10:13 PD
Methylene chloride	ND	ug/kg	31.			
1,1-Dichloroethane	ND	ug/kg	4.6			
Chloroform	ND	ug/kg	4.6			
Carbon tetrachloride	ND	ug/kg	3.1			
1,2-Dichloropropane	ND	ug/kg	11.			
Dibromochloromethane	ND	ug/kg	3.1			
1,1,2-Trichloroethane	ND	ug/kg	4.6			
Tetrachloroethene	ND	ug/kg	3.1			
Chlorobenzene	ND	ug/kg	3.1			
Trichlorofluoromethane	ND	ug/kg	15.			
1,2-Dichloroethane	ND	ug/kg	3.1			
1,1,1-Trichloroethane	ND	ug/kg	3.1			
Bromodichloromethane	ND	ug/kg	3.1			
trans-1,3-Dichloropropene	ND	ug/kg	3.1			
cis-1,3-Dichloropropene	ND	ug/kg	3.1			
1,1-Dichloropropene	ND	ug/kg	15.			
Bromoform	ND	ug/kg	12.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.1			
Benzene	ND	ug/kg	3.1			
Toluene	ND	ug/kg	4.6			
Ethylbenzene	4.6	ug/kg	3.1			
Chloromethane	ND	ug/kg	15.			
Bromomethane	ND	ug/kg	6.2			
Vinyl chloride	ND	ug/kg	6.2			
Chloroethane	ND	ug/kg	6.2			
1,1-Dichloroethene	ND	ug/kg	3.1			
trans-1,2-Dichloroethene	ND	ug/kg	4.6			
Trichloroethene	ND	ug/kg	3.1			
1,2-Dichlorobenzene	ND	ug/kg	15.			
1,3-Dichlorobenzene	ND	ug/kg	15.			
1,4-Dichlorobenzene	ND	ug/kg	15.			
Methyl tert butyl ether	ND	ug/kg	6.2			
p/m-Xylene	23	ug/kg	6.2			
o-Xylene	ND	ug/kg	6.2			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-01
SB-1 (7-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 10:13 PD	
cis-1,2-Dichloroethene	ND	ug/kg	3.1				
Dibromomethane	ND	ug/kg	31.				
Styrene	ND	ug/kg	6.2				
Dichlorodifluoromethane	ND	ug/kg	31.				
Acetone	ND	ug/kg	31.				
Carbon disulfide	ND	ug/kg	31.				
2-Butanone	ND	ug/kg	31.				
Vinyl acetate	ND	ug/kg	31.				
4-Methyl-2-pentanone	ND	ug/kg	31.				
1,2,3-Trichloropropane	ND	ug/kg	31.				
2-Hexanone	ND	ug/kg	31.				
Bromochloromethane	ND	ug/kg	15.				
2,2-Dichloropropane	ND	ug/kg	15.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	15.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.1				
Bromobenzene	ND	ug/kg	15.				
n-Butylbenzene	ND	ug/kg	3.1				
sec-Butylbenzene	ND	ug/kg	3.1				
tert-Butylbenzene	ND	ug/kg	15.				
o-Chlorotoluene	ND	ug/kg	15.				
p-Chlorotoluene	ND	ug/kg	15.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	15.				
Hexachlorobutadiene	ND	ug/kg	15.				
Isopropylbenzene	14	ug/kg	3.1				
p-Isopropyltoluene	ND	ug/kg	3.1				
Naphthalene	ND	ug/kg	15.				
Acrylonitrile	ND	ug/kg	31.				
n-Propylbenzene	16	ug/kg	3.1				
1,2,3-Trichlorobenzene	ND	ug/kg	15.				
1,2,4-Trichlorobenzene	ND	ug/kg	15.				
1,3,5-Trimethylbenzene	ND	ug/kg	15.				
1,2,4-Trimethylbenzene	51	ug/kg	15				
1,4-Diethylbenzene	ND	ug/kg	12.				
4-Ethyltoluene	23	ug/kg	12				
1,2,4,5-Tetramethylbenzene	14	ug/kg	12				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	109	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	106	%	70-130				
Dibromofluoromethane	96.0	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-02	Date Collected: 20-MAR-2009 14:30
SB-2 (5-6')	Date Received : 23-MAR-2009
Sample Matrix: SOIL	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	91	%	0.10	30 2540G		0324 22:00 JO
Volatile Organics by GC/MS - Westborough Lab				1 8260B		0324 10:50 PD
Methylene chloride	ND	ug/kg	27.			
1,1-Dichloroethane	ND	ug/kg	4.1			
Chloroform	ND	ug/kg	4.1			
Carbon tetrachloride	ND	ug/kg	2.7			
1,2-Dichloropropane	ND	ug/kg	9.6			
Dibromochloromethane	ND	ug/kg	2.7			
1,1,2-Trichloroethane	ND	ug/kg	4.1			
Tetrachloroethene	ND	ug/kg	2.7			
Chlorobenzene	ND	ug/kg	2.7			
Trichlorofluoromethane	ND	ug/kg	14.			
1,2-Dichloroethane	ND	ug/kg	2.7			
1,1,1-Trichloroethane	ND	ug/kg	2.7			
Bromodichloromethane	ND	ug/kg	2.7			
trans-1,3-Dichloropropene	ND	ug/kg	2.7			
cis-1,3-Dichloropropene	ND	ug/kg	2.7			
1,1-Dichloropropene	ND	ug/kg	14.			
Bromoform	ND	ug/kg	11.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7			
Benzene	ND	ug/kg	2.7			
Toluene	ND	ug/kg	4.1			
Ethylbenzene	ND	ug/kg	2.7			
Chloromethane	ND	ug/kg	14.			
Bromomethane	ND	ug/kg	5.5			
Vinyl chloride	ND	ug/kg	5.5			
Chloroethane	ND	ug/kg	5.5			
1,1-Dichloroethene	ND	ug/kg	2.7			
trans-1,2-Dichloroethene	ND	ug/kg	4.1			
Trichloroethene	ND	ug/kg	2.7			
1,2-Dichlorobenzene	ND	ug/kg	14.			
1,3-Dichlorobenzene	ND	ug/kg	14.			
1,4-Dichlorobenzene	ND	ug/kg	14.			
Methyl tert butyl ether	ND	ug/kg	5.5			
p/m-Xylene	ND	ug/kg	5.5			
o-Xylene	ND	ug/kg	5.5			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-02
SB-2 (5-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 10:50 PD	
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
Styrene	ND	ug/kg	5.5				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	41	ug/kg	27				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
Acrylonitrile	ND	ug/kg	27.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
1,4-Diethylbenzene	ND	ug/kg	11.				
4-Ethyltoluene	ND	ug/kg	11.				
1,2,4,5-Tetramethylbenzene	ND	ug/kg	11.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	122	%	70-130				
Toluene-d8	115	%	70-130				
4-Bromofluorobenzene	117	%	70-130				
Dibromofluoromethane	109	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-03	Date Collected: 20-MAR-2009 16:05
SB-3 (13-14')	Date Received : 23-MAR-2009
Sample Matrix: SOIL	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	91	%	0.10	30 2540G		0326 16:07 SD
Volatile Organics by GC/MS - Westborough Lab				1 8260B		0324 11:27 PD
Methylene chloride	ND	ug/kg	27.			
1,1-Dichloroethane	ND	ug/kg	4.1			
Chloroform	ND	ug/kg	4.1			
Carbon tetrachloride	ND	ug/kg	2.7			
1,2-Dichloropropane	ND	ug/kg	9.6			
Dibromochloromethane	ND	ug/kg	2.7			
1,1,2-Trichloroethane	ND	ug/kg	4.1			
Tetrachloroethene	ND	ug/kg	2.7			
Chlorobenzene	ND	ug/kg	2.7			
Trichlorofluoromethane	ND	ug/kg	14.			
1,2-Dichloroethane	ND	ug/kg	2.7			
1,1,1-Trichloroethane	ND	ug/kg	2.7			
Bromodichloromethane	ND	ug/kg	2.7			
trans-1,3-Dichloropropene	ND	ug/kg	2.7			
cis-1,3-Dichloropropene	ND	ug/kg	2.7			
1,1-Dichloropropene	ND	ug/kg	14.			
Bromoform	ND	ug/kg	11.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7			
Benzene	ND	ug/kg	2.7			
Toluene	ND	ug/kg	4.1			
Ethylbenzene	ND	ug/kg	2.7			
Chloromethane	ND	ug/kg	14.			
Bromomethane	ND	ug/kg	5.5			
Vinyl chloride	ND	ug/kg	5.5			
Chloroethane	ND	ug/kg	5.5			
1,1-Dichloroethene	ND	ug/kg	2.7			
trans-1,2-Dichloroethene	ND	ug/kg	4.1			
Trichloroethene	ND	ug/kg	2.7			
1,2-Dichlorobenzene	ND	ug/kg	14.			
1,3-Dichlorobenzene	ND	ug/kg	14.			
1,4-Dichlorobenzene	ND	ug/kg	14.			
Methyl tert butyl ether	ND	ug/kg	5.5			
p/m-Xylene	ND	ug/kg	5.5			
o-Xylene	ND	ug/kg	5.5			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-03
SB-3 (13-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 11:27	PD
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
Styrene	ND	ug/kg	5.5				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
Acrylonitrile	ND	ug/kg	27.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
1,4-Diethylbenzene	ND	ug/kg	11.				
4-Ethyltoluene	ND	ug/kg	11.				
1,2,4,5-Tetramethylbenzene	ND	ug/kg	11.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	123	%	70-130				
Toluene-d8	108	%	70-130				
4-Bromofluorobenzene	116	%	70-130				
Dibromofluoromethane	106	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-04	Date Collected: 21-MAR-2009 10:15
SB-5 (12-13')	Date Received : 23-MAR-2009
Sample Matrix: SOIL	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	86	%	0.10	30 2540G		0325 13:50 SD
Volatile Organics by GC/MS - Westborough Lab				1 8260B		0324 12:05 PD
Methylene chloride	ND	ug/kg	29.			
1,1-Dichloroethane	ND	ug/kg	4.4			
Chloroform	ND	ug/kg	4.4			
Carbon tetrachloride	ND	ug/kg	2.9			
1,2-Dichloropropane	ND	ug/kg	10.			
Dibromochloromethane	ND	ug/kg	2.9			
1,1,2-Trichloroethane	ND	ug/kg	4.4			
Tetrachloroethene	ND	ug/kg	2.9			
Chlorobenzene	ND	ug/kg	2.9			
Trichlorofluoromethane	ND	ug/kg	14.			
1,2-Dichloroethane	ND	ug/kg	2.9			
1,1,1-Trichloroethane	ND	ug/kg	2.9			
Bromodichloromethane	ND	ug/kg	2.9			
trans-1,3-Dichloropropene	ND	ug/kg	2.9			
cis-1,3-Dichloropropene	ND	ug/kg	2.9			
1,1-Dichloropropene	ND	ug/kg	14.			
Bromoform	ND	ug/kg	12.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.9			
Benzene	ND	ug/kg	2.9			
Toluene	ND	ug/kg	4.4			
Ethylbenzene	ND	ug/kg	2.9			
Chloromethane	ND	ug/kg	14.			
Bromomethane	ND	ug/kg	5.8			
Vinyl chloride	ND	ug/kg	5.8			
Chloroethane	ND	ug/kg	5.8			
1,1-Dichloroethene	ND	ug/kg	2.9			
trans-1,2-Dichloroethene	ND	ug/kg	4.4			
Trichloroethene	ND	ug/kg	2.9			
1,2-Dichlorobenzene	ND	ug/kg	14.			
1,3-Dichlorobenzene	ND	ug/kg	14.			
1,4-Dichlorobenzene	ND	ug/kg	14.			
Methyl tert butyl ether	ND	ug/kg	5.8			
p/m-Xylene	ND	ug/kg	5.8			
o-Xylene	ND	ug/kg	5.8			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-04
SB-5 (12-13')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 12:05 PD	
cis-1,2-Dichloroethene	ND	ug/kg	2.9				
Dibromomethane	ND	ug/kg	29.				
Styrene	ND	ug/kg	5.8				
Dichlorodifluoromethane	ND	ug/kg	29.				
Acetone	ND	ug/kg	29.				
Carbon disulfide	ND	ug/kg	29.				
2-Butanone	ND	ug/kg	29.				
Vinyl acetate	ND	ug/kg	29.				
4-Methyl-2-pentanone	ND	ug/kg	29.				
1,2,3-Trichloropropane	ND	ug/kg	29.				
2-Hexanone	ND	ug/kg	29.				
Bromochloromethane	ND	ug/kg	14.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.9				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.9				
sec-Butylbenzene	ND	ug/kg	2.9				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.9				
p-Isopropyltoluene	ND	ug/kg	2.9				
Naphthalene	ND	ug/kg	14.				
Acrylonitrile	ND	ug/kg	29.				
n-Propylbenzene	ND	ug/kg	2.9				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
1,4-Diethylbenzene	ND	ug/kg	12.				
4-Ethyltoluene	ND	ug/kg	12.				
1,2,4,5-Tetramethylbenzene	ND	ug/kg	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	118	%	70-130				
Toluene-d8	105	%	70-130				
4-Bromofluorobenzene	112	%	70-130				
Dibromofluoromethane	103	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-05	Date Collected: 21-MAR-2009 12:20
SB-4 (13-14')	Date Received : 23-MAR-2009
Sample Matrix: SOIL	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	90	%	0.10	30 2540G	0325 13:50	SD
Volatile Organics by GC/MS - Westborough Lab				1 8260B	0324 12:42	PD
Methylene chloride	ND	ug/kg	28.			
1,1-Dichloroethane	ND	ug/kg	4.2			
Chloroform	ND	ug/kg	4.2			
Carbon tetrachloride	ND	ug/kg	2.8			
1,2-Dichloropropane	ND	ug/kg	9.7			
Dibromochloromethane	ND	ug/kg	2.8			
1,1,2-Trichloroethane	ND	ug/kg	4.2			
Tetrachloroethene	ND	ug/kg	2.8			
Chlorobenzene	ND	ug/kg	2.8			
Trichlorofluoromethane	ND	ug/kg	14.			
1,2-Dichloroethane	ND	ug/kg	2.8			
1,1,1-Trichloroethane	ND	ug/kg	2.8			
Bromodichloromethane	ND	ug/kg	2.8			
trans-1,3-Dichloropropene	ND	ug/kg	2.8			
cis-1,3-Dichloropropene	ND	ug/kg	2.8			
1,1-Dichloropropene	ND	ug/kg	14.			
Bromoform	ND	ug/kg	11.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8			
Benzene	ND	ug/kg	2.8			
Toluene	ND	ug/kg	4.2			
Ethylbenzene	ND	ug/kg	2.8			
Chloromethane	ND	ug/kg	14.			
Bromomethane	ND	ug/kg	5.6			
Vinyl chloride	ND	ug/kg	5.6			
Chloroethane	ND	ug/kg	5.6			
1,1-Dichloroethene	ND	ug/kg	2.8			
trans-1,2-Dichloroethene	ND	ug/kg	4.2			
Trichloroethene	ND	ug/kg	2.8			
1,2-Dichlorobenzene	ND	ug/kg	14.			
1,3-Dichlorobenzene	ND	ug/kg	14.			
1,4-Dichlorobenzene	ND	ug/kg	14.			
Methyl tert butyl ether	ND	ug/kg	5.6			
p/m-Xylene	ND	ug/kg	5.6			
o-Xylene	ND	ug/kg	5.6			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-05
SB-4 (13-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 12:42 PD	
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
Styrene	ND	ug/kg	5.6				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
Acrylonitrile	ND	ug/kg	28.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
1,4-Diethylbenzene	ND	ug/kg	11.				
4-Ethyltoluene	ND	ug/kg	11.				
1,2,4,5-Tetramethylbenzene	ND	ug/kg	11.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	122	%	70-130				
Toluene-d8	106	%	70-130				
4-Bromofluorobenzene	112	%	70-130				
Dibromofluoromethane	102	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-06	Date Collected: 21-MAR-2009 00:00
Sample Matrix: SOIL	Date Received : 23-MAR-2009
Condition of Sample: Satisfactory	Date Reported : 27-MAR-2009
Number & Type of Containers: 1-Vial	Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
General Chemistry - Westborough Lab						
Solids, Total	90	%	0.10	30 2540G		0326 16:07 SD
Volatile Organics by GC/MS - Westborough Lab				1 8260B		0324 13:19 PD
Methylene chloride	ND	ug/kg	28.			
1,1-Dichloroethane	ND	ug/kg	4.2			
Chloroform	ND	ug/kg	4.2			
Carbon tetrachloride	ND	ug/kg	2.8			
1,2-Dichloropropane	ND	ug/kg	9.7			
Dibromochloromethane	ND	ug/kg	2.8			
1,1,2-Trichloroethane	ND	ug/kg	4.2			
Tetrachloroethene	ND	ug/kg	2.8			
Chlorobenzene	ND	ug/kg	2.8			
Trichlorofluoromethane	ND	ug/kg	14.			
1,2-Dichloroethane	ND	ug/kg	2.8			
1,1,1-Trichloroethane	ND	ug/kg	2.8			
Bromodichloromethane	ND	ug/kg	2.8			
trans-1,3-Dichloropropene	ND	ug/kg	2.8			
cis-1,3-Dichloropropene	ND	ug/kg	2.8			
1,1-Dichloropropene	ND	ug/kg	14.			
Bromoform	ND	ug/kg	11.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8			
Benzene	ND	ug/kg	2.8			
Toluene	ND	ug/kg	4.2			
Ethylbenzene	ND	ug/kg	2.8			
Chloromethane	ND	ug/kg	14.			
Bromomethane	ND	ug/kg	5.6			
Vinyl chloride	ND	ug/kg	5.6			
Chloroethane	ND	ug/kg	5.6			
1,1-Dichloroethene	ND	ug/kg	2.8			
trans-1,2-Dichloroethene	ND	ug/kg	4.2			
Trichloroethene	ND	ug/kg	2.8			
1,2-Dichlorobenzene	ND	ug/kg	14.			
1,3-Dichlorobenzene	ND	ug/kg	14.			
1,4-Dichlorobenzene	ND	ug/kg	14.			
Methyl tert butyl ether	ND	ug/kg	5.6			
p/m-Xylene	ND	ug/kg	5.6			
o-Xylene	ND	ug/kg	5.6			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-06
DUPLICATE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 13:19 PD	
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
Styrene	ND	ug/kg	5.6				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
Acrylonitrile	ND	ug/kg	28.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
1,4-Diethylbenzene	ND	ug/kg	11.				
4-Ethyltoluene	ND	ug/kg	11.				
1,2,4,5-Tetramethylbenzene	ND	ug/kg	11.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	117	%	70-130				
Toluene-d8	107	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	101	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0903479-07	Date Collected: 20-MAR-2009 00:00
TRIP BLANK	Date Received : 23-MAR-2009
Sample Matrix: WATER	Date Reported : 27-MAR-2009
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab				1	8260B	0324 10:04 PD	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Acrylonitrile	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0903479-07
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE		ID
						PREP	ANAL	
Volatile Organics by GC/MS - Westborough Lab cont'd				1	8260B	0324 10:04 PD		
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.0					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	0.60					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
1,4-Diethylbenzene	ND	ug/l	2.0					
4-Ethyltoluene	ND	ug/l	2.0					
1,2,4,5-Tetramethylbenzene	ND	ug/l	2.0					
Surrogate(s)	Recovery		QC Criteria					
1,2-Dichloroethane-d4	109	%	70-130					
Toluene-d8	98.0	%	70-130					
4-Bromofluorobenzene	101	%	70-130					
Dibromofluoromethane	104	%	70-130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0903479

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
General Chemistry - Westborough Lab for sample(s) 01-02 (L0903506-02, WG356573-1)					
Solids, Total	78	79	%	1	20
General Chemistry - Westborough Lab for sample(s) 04-05 (L0903514-06, WG356671-1)					
Solids, Total	95	95	%	0	20
General Chemistry - Westborough Lab for sample(s) 03,06 (L0903518-29, WG356840-1)					
Solids, Total	93	94	%	1	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0903479

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by GC/MS - Westborough Lab for sample(s) 07 (WG356469-1, WG356469-2)					
Chlorobenzene	96	109	13	20	75-130
Benzene	91	102	11	20	76-127
Toluene	94	106	12	20	76-125
1,1-Dichloroethene	92	107	15	20	61-145
Trichloroethene	93	106	13	20	71-120
Surrogate(s)					
1,2-Dichloroethane-d4	105	104	1		70-130
Toluene-d8	99	100	1		70-130
4-Bromofluorobenzene	97	98	1		70-130
Dibromofluoromethane	104	112	7		70-130
Volatile Organics by GC/MS - Westborough Lab for sample(s) 01-06 (WG356502-1, WG356502-2)					
Chlorobenzene	108	98	10	30	60-133
Benzene	99	85	15	30	66-142
Toluene	102	93	9	30	59-139
1,1-Dichloroethene	110	96	14	30	59-172
Trichloroethene	101	90	12	30	62-137
Surrogate(s)					
1,2-Dichloroethane-d4	120	105	13		70-130
Toluene-d8	108	100	8		70-130
4-Bromofluorobenzene	113	108	5		70-130
Dibromofluoromethane	115	101	13		70-130

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0903479

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 07 (WG356469-3)						
Volatile Organics by GC/MS - Westborough Lab				1 8260B	0324 08:53 PD	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Acrylonitrile	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
Vinyl acetate	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0903479

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 07 (WG356469-3)						
Volatile Organics by GC/MS - Westborough Lab cont'd				1 8260B	0324 08:53 PD	
Bromochloromethane	ND	ug/l	2.5			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
1,4-Diethylbenzene	ND	ug/l	2.0			
4-Ethyltoluene	ND	ug/l	2.0			
1,2,4,5-Tetramethylbenzene	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	102	%	70-130			
Toluene-d8	98.0	%	70-130			
4-Bromofluorobenzene	99.0	%	70-130			
Dibromofluoromethane	98.0	%	70-130			
Blank Analysis for sample(s) 07 (WG356469-3)						
Volatile Organics by GC/MS - Westborough Lab				1 8260B	0324 08:53 PD	
Tentatively Identified Compounds						
No Tentatively Identified						
Compounds	ND	ug/l				
Blank Analysis for sample(s) 01-06 (WG356502-3)						
Volatile Organics by GC/MS - Westborough Lab				1 8260B	0324 09:35 PD	
Methylene chloride	ND	ug/kg	25.			
1,1-Dichloroethane	ND	ug/kg	3.8			
Chloroform	ND	ug/kg	3.8			
Carbon tetrachloride	ND	ug/kg	2.5			
1,2-Dichloropropane	ND	ug/kg	8.8			
Dibromochloromethane	ND	ug/kg	2.5			
1,1,2-Trichloroethane	ND	ug/kg	3.8			

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0903479

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-06 (WG356502-3)						
Volatile Organics by GC/MS - Westborough Lab cont'd				1 8260B	0324 09:35 PD	
Tetrachloroethene	ND	ug/kg	2.5			
Chlorobenzene	ND	ug/kg	2.5			
Trichlorofluoromethane	ND	ug/kg	12.			
1,2-Dichloroethane	ND	ug/kg	2.5			
1,1,1-Trichloroethane	ND	ug/kg	2.5			
Bromodichloromethane	ND	ug/kg	2.5			
trans-1,3-Dichloropropene	ND	ug/kg	2.5			
cis-1,3-Dichloropropene	ND	ug/kg	2.5			
1,1-Dichloropropene	ND	ug/kg	12.			
Bromoform	ND	ug/kg	10.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5			
Benzene	ND	ug/kg	2.5			
Toluene	ND	ug/kg	3.8			
Ethylbenzene	ND	ug/kg	2.5			
Chloromethane	ND	ug/kg	12.			
Bromomethane	ND	ug/kg	5.0			
Vinyl chloride	ND	ug/kg	5.0			
Chloroethane	ND	ug/kg	5.0			
1,1-Dichloroethene	ND	ug/kg	2.5			
trans-1,2-Dichloroethene	ND	ug/kg	3.8			
Trichloroethene	ND	ug/kg	2.5			
1,2-Dichlorobenzene	ND	ug/kg	12.			
1,3-Dichlorobenzene	ND	ug/kg	12.			
1,4-Dichlorobenzene	ND	ug/kg	12.			
Methyl tert butyl ether	ND	ug/kg	5.0			
p/m-Xylene	ND	ug/kg	5.0			
o-Xylene	ND	ug/kg	5.0			
cis-1,2-Dichloroethene	ND	ug/kg	2.5			
Dibromomethane	ND	ug/kg	25.			
Styrene	ND	ug/kg	5.0			
Dichlorodifluoromethane	ND	ug/kg	25.			
Acetone	ND	ug/kg	25.			
Carbon disulfide	ND	ug/kg	25.			
2-Butanone	ND	ug/kg	25.			
Vinyl acetate	ND	ug/kg	25.			
4-Methyl-2-pentanone	ND	ug/kg	25.			
1,2,3-Trichloropropane	ND	ug/kg	25.			
2-Hexanone	ND	ug/kg	25.			
Bromochloromethane	ND	ug/kg	12.			
2,2-Dichloropropane	ND	ug/kg	12.			
1,2-Dibromoethane	ND	ug/kg	10.			
1,3-Dichloropropane	ND	ug/kg	12.			
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5			
Bromobenzene	ND	ug/kg	12.			
n-Butylbenzene	ND	ug/kg	2.5			
sec-Butylbenzene	ND	ug/kg	2.5			

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0903479

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-06 (WG356502-3)						
Volatile Organics by GC/MS - Westborough Lab cont'd				1 8260B	0324 09:35 PD	
tert-Butylbenzene	ND	ug/kg	12.			
o-Chlorotoluene	ND	ug/kg	12.			
p-Chlorotoluene	ND	ug/kg	12.			
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.			
Hexachlorobutadiene	ND	ug/kg	12.			
Isopropylbenzene	ND	ug/kg	2.5			
p-Isopropyltoluene	ND	ug/kg	2.5			
Naphthalene	ND	ug/kg	12.			
Acrylonitrile	ND	ug/kg	25.			
n-Propylbenzene	ND	ug/kg	2.5			
1,2,3-Trichlorobenzene	ND	ug/kg	12.			
1,2,4-Trichlorobenzene	ND	ug/kg	12.			
1,3,5-Trimethylbenzene	ND	ug/kg	12.			
1,2,4-Trimethylbenzene	ND	ug/kg	12.			
1,4-Diethylbenzene	ND	ug/kg	10.			
4-Ethyltoluene	ND	ug/kg	10.			
1,2,4,5-Tetramethylbenzene	ND	ug/kg	10.			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	101	%	70-130			
Toluene-d8	97.0	%	70-130			
4-Bromofluorobenzene	102	%	70-130			
Dibromofluoromethane	99.0	%	70-130			

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised February 18, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: MA0086.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water) 600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, EPA 350.2/1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

New York Department of Health Certificate/Lab ID: 11148.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: **AT&T**

Address: **440 Rte Ave S HAF1**

Phone: **New York NY 10016**
646-388-9537

Fax: **212**

Email: **kgallagher@att.com**

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: **2552 Rte 89**

Project Location: **Seneca Falls, NY**

Project #: **40212**

Project Manager: **Kerry Gallagher**
Bryan Averett

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved)

Date Due: **3/30/09**

Time:

Date Rec'd in Lab: **3/23/09**

ALPHA Job #: **03471**

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

8260

SAMPLE HANDLING

Filtration _____
☐ Done
☐ Not needed
☐ Lab to do
☐ Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
03471-01	SB-1 (7-8')	3/24/09	1045	Soil	K6	X									
-02	SB-2 (5-6')	3/24/09	1430												
-03	SB-3 (13-14')	3/24/09	1605												
-04	SB-5 (12-13')	3/24/09	1015												
-05	SB-4 (13-14')	3/21/09	1220												
-06	Duplicate	3/21/09	—			X	X								
-07	Trip Blank					X									

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT

MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: **AT&T**

Address: **440 Rte Ave S HAF1**

Phone: **646-388-9537**

Fax: **212**

Email: **kgallagher@att.com**

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: **2552 Rte 89**

Project Location: **Seneca Falls, NY**

Project #: **40212**

Project Manager: **Kerry Gallagher**

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved)

Date Due: **3/30/09**

Time:

Date Rec'd in Lab: **3/23/09**

ALPHA Job #: **03471**

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Billing Information

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
8260

SAMPLE HANDLING

Filtration _____
☐ Done
☐ Not needed
☐ Lab to do
☐ Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
03471-01	SB-1 (7-8')	3/24/09	1045	Soil	K6	X									
-02	SB-2 (5-6')	3/24/09	1430												
-03	SB-3 (13-14')	3/24/09	1605												
-04	SB-5 (12-13')	3/24/09	1015												
-05	SB-4 (13-14')	3/21/09	1220												
-06	Duplicate	3/21/09	—			X	X								
-07	Trip Blank					X									

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT

MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.