SECOND ANNUAL

SITE MONITORING REPORT
AND
IC/EC CERTIFICATION

FOR THE

FORMER
CLINTON TERRACE SHOPPING CENTER
78 CROTON AVENUE
OSSINING, NEW YORK

NYSDEC BROWNFIELD # 360110

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Report Date: June 15, 2014

EXECUTIVE SUMMARY

The following "*Second Annual Site Monitoring Report and IC/EC Certification*" is being submitted in accordance with the site specific "*Site Management Plan*" issued for the former Clinton Terrace Shopping Center (Site), Brownfield file number 360110, approved on or about May 15, 2012.

In addition to the requirement of documenting the integrity of the IC/EC systems that apply for this Site; this certification details additional investigation work conducted with the approval of the New York State Department of Environmental Conservation ("NYSDEC") with consultation by the New York State Department of Health ("NYSDOH") in their letter dated February 18, 2014 (the "Letter"), attached hereto as Appendix B.

As can be seen in the Letter, additional investigation was conducted to ascertain whether the SMP should continue in its current form or whether reductions are possible. It also details select revisions to the *Site Management Plan"* all ready put in place since the First Annual Certification including, but not necessarily limited to:

1. permanent closing of monitoring wells MW-1 and MW-5;
2. a reduction in groundwater monitoring from quarterly to annual.

Based on the results of our fifth quarterly groundwater sampling and most recent Site inspection, Jade certifies the Site is in compliance with all requirements of the Site Management Plan. The SMP is being implemented as required, is working as intended and residual contamination continues to degrade rapidly towards accepted regulatory criteria. As such, Jade makes no recommendation for further action at this time other than a reduction in the SMP requirements as detailed below.

Moreover, based on the most recent groundwater, indoor air and soil gas testing results, Jade concludes neither the groundwater monitoring program in its current form nor continued operation of the SSDS are cost effective. Based on details provided herein, **Jade recommends the NYSDEC consider reducing the groundwater monitoring program for this Site to the annual sampling of MW—2 and converting the SSDS from "active" (in-line fan operation) to "passive" mode (remove in-line fan and operate as vent utilizing static atmospheric pressure).**

The Site consists of a 1-acre corner parcel of land known as 78 Croton Avenue, in a local business/residential area of the City of Ossining, New York. The Site was cleaned up under the state Brownfield program after it was determined during routine predevelopment due diligence that the Site was contaminated as a result of historical dry cleaner operations at the shopping center. Via the Brownfield Program, redevelopment continued under the auspices of the NYSDEC, who is mandated to manage/oversee the clean-up of contaminated sites in New York State, with a bias towards those properties such is this, which would not likely have been redeveloped due the complications caused by contamination.

The Site was tenanted by a Westinghouse Coin Operated dry cleaning establishment between 1961 and 1974. While in operation, it utilized a leaky PCE collection system, designed to collect any spilled PCE and direct it to a temporary storage tank beneath ten PCE washing machines it utilized. Based upon our investigation, a weld in the copper plumbing that connected the floor drain to the tank had failed, resulting it the chronic discharge of small quantities of PCE every time PCE was spilled inside the containment and entered the floor drain. The chronic small spillages created a plume starting at the failed pipe elbow joint just beneath the floor slab, that extended down through the soil strata about 10 feet where it entered the upper aquifer. Once it entered the water column, the dissolved PCE was carried with groundwater current in a northwesterly direction beneath the parking lot of the former shopping center. Extensive testing indicates that overall, the plume remained on-site beneath the parking, and had not reached any down gradient adjoining properties. The testing documented very little if any of the contamination left the site.

EXECUTIVE SUMMARY – CONT.

Generally, the remedial work included the

1. excavation and off-site disposal of contaminated soil "source" beneath the leaky PCE storage system down as deep as 17-18' below grade (7-8 feet into saturated zone) while
2. dewatering to the municipal sewer under permit to lower the water table, remove dissolved PCE in the water column;
3. Groundwater "polishing" via hydrogen based dechloronation by propagating a biological community under anaerobic conditions via a proprietary lactic acid based formulation referred to as HRC®. The polishing included subsurface manipulation to insure the best distribution of the HRC throughout the subsurface as detailed below.

Please refer to a Well Location Map provided as Appendix A for a depiction of the Site including but not limited to the current building footprint, monitoring wells, property bounds and the conceptual model of the original plume. Please refer to the Site Management Plan provided as Appendix C to review the original requirements of this annual certification and the required Site Management Program "Checklist", which is a site specific document prepared by the NYSDEC to aid in the implementation of the plan. Conceptually, if this Site Management Plan is maintained effectively, the utmost level of health and safety will exist for this Site and the surrounding community, with respect to the historical environmental impact and the Sites continued use for retail purposes.

1. BACKGROUND

1.1 Introduction / Project History

The following *"Second Annual Site Monitoring Report and IC/EC Certification"* summarizes the results of our prior 2 years of groundwater monitoring at the Former Clinton Terrace Shopping Center ("Walgreens") located at the corner of Croton and Clinton Avenues in the City of Ossining, Westchester County, New York. Remedial efforts were completed in the summer of 2011, groundwater well installation was completed in the summer of 2012 and our most recent groundwater sampling in July 2013 documents conditions a little over 2 years after active remedial efforts were discontinued.

1.1.1 The Historical Source

The original Clinton Corners Shopping Center replaced two lots improved with residential dwellings with ground floor retail space in 1950. The original 1950 structure included a single unit grocery space. An addition in 1960 to the south side of the structure doubled the size of the building and provided several new slab on grade retail units (the grocery had a full basement). The southern most end unit of the new addition (closest to Clinton Avenue) was occupied by a "state of the art" Westinghouse coin operated dry cleaning establishment. The northwest corner of that end unit was fitted with two rows of Westinghouse coin operated dry cleaning machines, just left inside the front door. All ten machines were reportedly inside a containment designed to collect any spilled PCE (at that time not only inhaling the fumes but contacting the substance without ski, eye or respiratory protection was acceptable). The spill containment directed the spilled PCE through a floor drain at the center of the containment, down into copper plumbing that directed the PCE into a 550 gallon steel tank buried beneath the solvent machines. The start of the remedial efforts in Spring 2011 included the removal of the tank, which was filled with a mix of PCE/water (no holes).

During the tank system removal it became apparent that the floor drain inside the containment was connect to the tank via copper drain pipe, which traversed from the center of the containment, north just below the floor slab towards the interior partition wall, then down into the subsurface and back south to the top of the tank. During removal of the slab, a soldered elbow was found to have failed along the bottom of the plumbing at the interior wall (u-turn). Based on the nature of the failure, it was clear that every time PCE entered the floor drain and flowed through the drain, a portion leaked out through the failed soldered connection and entered site soils.

Although anticipated to be relatively small discharges, the chronic and continuous nature of the discharges over the years resulted in a plume of chlorinated solvent beginning just beneath the leaky piping, extending down and into the saturated zone. Once in the water column, the dissolved PCE was carried on groundwater currents in an overall northwest direction beneath the parking lot in front of the building (our inspection revealed the tank did not leak and was filled almost to capacity with PCE when uncovered).

Monitoring well MW-2 was installed in front of the new building (current improvements utilize similar footprint as prior improvements) directly down gradient of and within 30' of the point of release.

1. BACKGROUND – CONT.

1.1.2 Summary of Remedial Efforts

As noted above, during the late spring and summer of 2011, Jade oversaw the dewatering of the site to the municipal sewer under permit which dropped the water table 5+ feet from its static level and allowed for removal of soils much deeper than would have been possible without dewatering. Once the pumping level had been established, Jade proceeded to excavate and beneath the former machines from just below the slab to a depth of 7+ feet below the natural static water level (16'+ below grade). Dewater was treated to reduce suspended solids and discharged to the county sewer with daily chemical analysis. Contaminated soil was disposed as either hazardous waste at StableX, Canada or non-hazardous landfill cover in a landfill located in western New York State.

Jade directed the excavation of all soil first by removing all soil exhibiting an odor of PCE and then by removing all soil emitting elevated levels of PCE via a calibrated 11.7 eV photo ionization detector (PID). Once the PID revealed impacted soils had all be removed, end point samples were collected for confirmatory analysis by a licensed chemistry lab. Once end point soil samples revealed all of the source contamination had been removed (soil contaminated above the regulatory limit of 1,300 ppb), the excavation stopped. The excavation was then backfilled with highly permeable ¾" crushed stone to an elevation of approximately 2' above the water table. Prior to covering the gravel with geo-textile and shutting down the dewatering system, the gravel was inoculated with 150 gallons of HRC.

1.1.3 Post Remedial Monitoring Well Installation and Layout

After the active remediation was complete in June 2011, it cleared the way for redevelopment. In accordance with our final approval with the NYSDEC, once development was complete, Jade returned to the Site in July 2012 and installed three (3) new 2" monitoring wells across the front of the new building and a fourth further out in the parking lot, in a position directly down gradient of the point of release based on the measured direction of groundwater flow.

In addition to the installation of the permanent dewatering system behind the new building, the entire foundation was sealed with a very expensive liner to protect the interior in the event the pump system failed. In addition to monitoring wells installed for the purposes of monitoring, the NYSDEC requested we also test the buildings permanent dewatering system since it discharged into the site stormwater control system which ultimately discharged into Sing Sing Creek, a tributary of the Hudson River. The specifications associated with that liner far exceeded general specifications for a liner to be used to retard vapor migration.

Despite the ability to draw in contaminated groundwater, to date, only trace levels of PCE have been detected in the pump effluent, well below the discharge standards. In addition to the four newly installed wells and the pump system, Jade salvaged a former 2" well drilled in the northeast most corner of the site and included it in the monitoring program, for a total of five (5) wells and one catch basin. The map provided in Appendix A depicts these sample locations as well as the building and dewatering pit.

1. BACKGROUND – CONT.

1.1.4 Engineering and Institutional Controls EC/IC

In addition to the groundwater monitoring, the Site Management Plan required operation of an active sub-slab depressurization system ("SSDS") and an intact site "cap" comprised of concrete or blacktop finished surfaces or a minimum of 1' thick layer of clean top soil where no hardscapes' were applied (landscaped areas). The SMP required annual certification that the "caps" were not breached, allowing contact with underlying soils.

1.2 Purpose and Objective

The primary purpose of this SMP is to:

1. monitor the effectiveness of the remedial efforts and the groundwater polishing program put in place;
2. minimize the potential for impact to interior atmospheres of new development;
3. certify controls remain intact and minimize the potential for human exposure as intended:

The objective of these efforts was to provide for the continued future use of this site for commercial retail purposes in a cost effective manner that is and remains protective of human health and the environment with the ultimate goal of Full Site Closure being issued by the NYSDEC indicating the remedial efforts have successfully brought the Site back into compliance with state environmental quality laws and regulations and no longer pose any health and safety concern.

2.0 SECOND BIANNUAL CERTIFICATION

2.1 Groundwater Monitoring

The most labor and cost intensive aspect of the Site Management Plan is the groundwater monitoring program. It is also the most important data used in the decision making process as to the need for continued operation of all aspects of the SMP. As such, considerable focus is placed on groundwater quality and how it is changing over time. **Based on discussions with the NYSDEC, they would consider closing the Site Management Plan once groundwater concentrations of contaminants approach regulatory requirements over the course of three consecutive sampling events.

2.1.1 Field Screening / Sampling

At each sampling event, Jade first purged the wells of a minimum 5 gallons (multiple well volumes) using dedicated bailers. The samples were then transferred from dedicated bailer directly into lab supplied/preserved 40 ml VOA bottles without head space, labeled and placed in a cooler with blue ice for preservation during overnight courier delivery under proper chain of custody to a NYSDOH certified lab for chemical analysis. Specifically, via chain of custody, Jade ordered the analysis of all water samples in accordance with EPA Analytical method 8010 which utilizes a GC/MS analysis that only reports halogenated compounds including PCE and many of its degradation products.

2.1.2 Sample Management / Analytical Results

Sample analysis results are summarized below, (<) indicates constituent <u>not</u> detected above the labs method detection limit (MDL). The Reportable Detection Limit (RDL) was generally 5 ppb for all constituents and is also the regulatory level used for this assessment process. The presence of HRC or an expected residual thereof, appears to be reaching down gradient well MW-2 and resulting in sample dilution by the lab and higher RDL as can be noted in the Lab report appended hereto.

Concentrations above the detection limit are bolded. The cells shaded yellow indicate constituent concentrations between 5 and 50 parts per billion – within order of magnitude of criteria, orange between 50 and 500 ppb– within one and two orders of magnitude of criteria and cells shaded red indicate constituent concentrations exceeding 500 ppb– two order of magnitude of criteria. Please refer to the complete report in Appendix C for the complete list of parameters and associated detection limits.

From the summary table its clear MW-2 located directly down gradient although slightly, remains the only well impacted with PCE above regulatory levels. No other areas appear to be contaminated at levels exceeding the states groundwater quality criteria. All other wells exhibited groundwater concentrations of PCE below the groundwater quality criteria for PCE of 5 ppb, including the pump effluent. Based on the presence of degradation products, Jade concludes the enhanced natural attenuation is working as intended. A copy of the lab report is provided in Appendix D and includes a 3rd party validation.

2.0 SECOND BIANNUAL CERTIFICATION - CONT

The summary table below depicts changes in groundwater impact as a result of the PCE spill post remediation between April 2012 and July 2013.

Groundwater Monitoring Summary Table					
Constituent Detected	**Date Sampled**				
	Q1 April 2012	Q2 Sept 2012	Q3 Jan 2013	Q4 March 2013	Q5 July 2013
MW-1					
Tetrachloroethylene	**3.7**	**2.7**	NS	<5	1.5
Trichloroethylene	<2	<5	NS	<5	<5
Cis 1-2 Dichloroethylene	<2	<5	NS	<5	<5
Cis 1-3 Dichloroethylene	<2	<5	NS	<5	<5
Vinyl Chloride	<2	<5	NS	<5	<5
MW-2 (directly down gradient of point of release)					
Tetrachloroethylene	280	12	32	25 J	11
Trichloroethylene	<5	<5	<10	<120 –no J	<25
Cis 1-2 Dichloroethylene	<5	<5	770	450	350
Cis 1-3 Dichloroethylene	<5	<5	<5	<120 – no J	<25
Vinyl Chloride	<5	<5	55	36 J	<25
MW-3					
Tetrachloroethylene	<10	<5	<10	<10	<5
Trichloroethylene	<10	<5	<10	<10	<5
Cis 1-2 Dichloroethylene	<10	<5	<10	0.85 j	1.9
Cis 1-3 Dichloroethylene	<10	<5	<10	<10	<5
Vinylk Chloride	<10	<5	<10	<10	<5
MW-4 (further directly down gradient of MW-2 and point of release)					
Tetrachloroethylene	<5	<5	**1.5**	20	<5
Trichloroethylene	<5	<5	<1	1.8	<5
Cis 1-2 Dichloroethylene	<5	**2.6**	<1	**86**	**0.99**
Cis 1-3 Dichloroethylene	<5	<5	<0.5	<1	<5
Vinyl Chloride	<5	<5	<1	5.8	3.3
MW-5					
Tetrachloroethylene	**4.9**	**2.5**	**1.5**	**NS**	**1.4**
Trichloroethylene	<2	<5	<1	**NS**	<5
Cis 1-2 Dichloroethylene	<2	<5	<1	**NS**	<5
Cis 1-3 Dichloroethylene	<2	<5	<0.5	**NS**	<5
Vinyl Chloride	<2	<5	<1	**NS**	<5
Pump Effluent/Storm Drain					
Tetrachloroethylene	**1.1**	<5	**1.5**	<1	<5
Trichloroethylene	<1	<5	<1	<1	<5
Cis 1-2 Dichloroethylene	<1	<5	<1	<1	<5
Cis 1-3 Dichloroethylene	<1	<5	<1	<1	<5
Vinyl Chloride	<1	<5	<1	<1	<5

Notes:

1. All concentrations provided in ppb / µg/L;
2. Detection limits of 5 ppb or better maintained;
3. Shading indicates exceeding yellow within order of magnitude, orange two orders of mag, red three orders:

2.0 SECOND BIANNUAL CERTIFICATION - CONT

Based on these favorable results last July, Jade formerly requested the NYSDEC consider some favorable revisions in the Site Management Plan. Specifically, Jade requested:

1. Two wells be permanently closed and removed from the sampling scheme, as well as the pump effluent sampling as these three sampling points have been consistently free of contamination.
2. The sampling schedule be reduced from quarterly to annual. Based on this request, the next sampling event is due August 2014.

In June 2014, MW-1 and MW-5 were grouted with a neat cement tremied in-place to eliminate the potential short circuiting of contamination from grade (e.g. leaking auto/truck fluids) to the groundwater aquifer.

In addition to approving these changes, Jade requested the additional investigation detailed below for the purposes of evaluating a Full Closure of the cased as it was apparent groundwater results were approaching regulatory levels.

2.2 Site Inspection / Cap Integrity

Jade thoroughly inspected the entire site on multiple occasions between the day of sampling and the completion of the soil gas survey on June 10, 2014 and did not identify any evidence of any existing or prior breech in the cap had occurred. At all times, flatwork was intact without evidence of patching or any other indication that the buried vapor barrier, which is not inspect-able, may have been penetrated.

2.3 Sub-surface Depressurization

As part of the building construction plan, a Sub-slab Depressurization System was installed that includes a perforated 4” pipe buried in sub-slab base gravel that extends from the front of the building to the rear of the building. At the rear of the building the perforated pipe penetrates the foundation wall and than an elbow connects the perforated pipe to solid 4” PVC riser that extends up to grade where it is fitted with an in-line fan, which exhausts via 2” PVC above the roof line.

A manometer installed in July 2013 confirms a significant vacuum of 3: of water column exists inside the perforated pipe. Based on the characteristic of the highly permeable crushed stone bedding beneath the floor slab and the impermeable barrier between the floor slab and gravel pack, Jade expects a measurable differential exists between the basement atmosphere and the sub-slab which would result in a downward migration of gas in the event communication between the basement and sub slab occurred. Based on the type of liner installed, Jade does not anticipate such a breech exists or will exist in the near future. As can be seen in the Final Engineering Report, the very expensive liner is warrantee against the passage of water even under pressure. Jade anticipates such a property would also result in a significant if not complete barrier to vapor migration.

2.0 SECOND BIANNUAL CERTIFICATION - CONT

2.4 Soil Gas Analysis

At the direction of the NYSDOH under observation by the NYSDEC, Jade prepared and implemented a work plan that called for the closure of select wells that were consistently providing clean results as well as discontinuing the sampling of the dewatering pump effluent. In addition, it included turning off the SSDS a minimum 30 days prior to collecting soil gas and indoor air samples for the purposes of assessing residual contaminations impact (indoor air) or potential impact (soil gas) on the building atmosphere. The in-line fan was turned off and locked out in March 2014.

The soil vapor quantification effort was conducted in two phases. The first phase included the collection of indoor air samples from the backroom of the first floor, and storage room of basement as well as a soil gas sample being collected from just outside the northwest corner of the building, via a well gravel filled boring from 1' to 10' below grade (approximately equal depth to invert of adjacent basement floor). No interior soil gas sampling was conducted to protect applicable warrantees on the liner system.

The second phase included the collection of a second soil gas sample from just outside the southwest corner of the building, very close to the original dry cleaner spill from a well gravel filled boring that extended from 1' to 3.5' below grade, well below the adjacent building floor slab.

After probing to depth, a stainless steel soil gas probe screen connected to polypropylene tubing was lowed to within 12" of the bottom of the boring and then the open boring was filled to within 12" of grade with highly permeable #2 well gravel. The remaining annulus was filled with hydrated bentonite to form an impermeable plug.

While the bentonite expanded, Jade connected the polytubing to a vacuum pump and removed multiple volumes of air from the bore hole before connecting the tubing to a helium detector and flooding the space around the tubing where it entered the bentonite with helium. At both locations no helium was detected indicating the plug was competent and as such, the tests were conducted. Each test continued for approximately 7 hours before the tubing was disconnected and regulators removed and the sample labeled and couriered to the lab for analysis. The lab reports associated with this testing is provided in Appendix E.

The results are summarized below, concentrations are provided in $\mu g/m^3$.

2.0 SECOND BIANNUAL CERTIFICATION - CONT

2.4 Soil Gas Analysis – cont.

Soil Gas Analysis Results Summary Table		
Volatiles by TO15	SW Corner 1' – 3.5'	NW Corner 1' – 10'
1,2,4-Trimethylbenzene	187	360
1,3,5-Trimethylbenzene	57.5	76
4-Ethyltoluene	35.2	<14
4-Isopropyltoluene	9.49	<10
4-Methyl-2-pentanone(MIBK)	10.6	ND
Acetone	264	1200
Benzene	45	130
Carbon Disulfide	3.42	10
Carbon Tetrachloride	0.50	<4.6
Chloroform	17.1	17
Cyclohexane	40.2	59
Dichlorodifluoromethane	2.37	<14
Ethanol	21,300	ND
Ethyl acetate	48.6	ND
Ethylbenzene	180	310
Heptane	99.5	260
Hexane	69	300
Isopropylbenzene	16.2	ND
m,p-Xylene	634	890
Methyl Ethyl Ketone	16.6	ND
Methylene Chloride	1.28	<20
n-Butylbenzene	18.7	ND
o-Xylene	222	260
Propylene	46.8	34
sec-Butylbenzene	8.12	ND
Styrene	3.11	<12
Tetrachloroethene	45.7	93
Toluene	1,610	2300
Trichloroethene	0.59	<3.9
Trichlorofluoromethane	3.37	<16

Notes:
1. Detection limits of 1 ppbv or better maintained.
2. Only constituents detected provided. Full species list provided in appendices.
3. < = conc. below noted detection limit , ND – not detected/reported

As can be seen in the summary table, a significant quantity of volatiles were identified in both soil vapor samples, however, close inspection reveals concentrations of chlorinated solvents (shaded yellow), the "contaminant of concern" for this Site, were below the applicable guidelines of 100 $\mu g/m^3$. Specifically, the only halogens identified:

1. Tetrachloroethene (a.k.a. Perchloroethylene) at 45.7 and 93 $\mu g/m^3$
2. Trichloroethene at 0.59 and below the detection limit of 3.9 at northwest corner.

2.0 SECOND BIANNUAL CERTIFICATION - CONT

2.5 Indoor Air Analysis

As noted previosuly, in addition to the soil gas sampling, Jade collected indoor air samples from the back storage room and also from a closed storage room in the basement. Our chemical survey indicated no open or previously opened and closed containers of chemicals other than floor stock, which was all well sealed. Based on the survey, jade concludes the only gases present where emitted by the buildings mechanical systems/fluids/lubricants and/or building materials (e.g. paints, caulking, carpets, furniture, adhesives, etc.). Products found in any retail and/or even residential type dwellings. The results of the two indoor air samples are summarized below:

Soil Gas Analysis Results Summary Table		
Volatiles by TO15	Basement	Backroom
Toluene	16	11
Tetrahydrofuran	1.2	ND
Trichloroethylene	ND	1.1
Tetrachloroethylene	3.7	2.1
Styrene	1.2	0.73
p-Ethyltoluene	1.4	0.77
p- & m- Xylenes	4.0	2.0
o-Xylene	2.0	0.99
n-Hexane	2.0	1.2
n-Heptane	1.1	0.99
Methylene chloride	5.8	3.0
4-Methyl-2-pentanone	0.7	0.58
Isopropanol	25	57
Ethyl Benzene	1.4	11
Ethyl acetate	9.0	27
Cyclohexane	1.4	0.69
Chloromethane	2.1	1.4
Carbon tetrachloride	1.3	0.9
Benzene	1.7	1.0
Acetone	50 B	43 B
2-Butanone	6.3	3.7
1,3-Butadiene	1.6	0.86
1,2-Dichloroethane	1.9	1.7
1,2,4-Trimethylbenzene	1.7	0.98
Trichlorofluoromethane (Freon 11)	2.2	1.3
1,1,2-Trichloro-1,2,2-trifluoroethane (freon)	0.94	ND
Dichlorodifluoromethane	2.0	1.4

Notes: 1. Same notes apply

As can be seen in the table, concentrations of PCE and TCE (shaded yellow) are well below applicable indoor air quality guideline of 30 $\mu g/m^3$.

3. CONCLUSIONS

3.1 Groundwater Monitoring

The results of the most recent groundwater sampling in July 2013 reveal PCE continues to degrade rapidly at the Site and concentrations of PCE in all but one well have dropped well below the state regulatory criteria of 5 ppb. The one remaining PCE contaminated well, MW-2, was found to contain PCE at only 11 ppb, just slightly above the regulatory level of 5 ppb. However, that analysis also revealed the presence of DCE at MW-2 (a degradation product of PCE) at 350 ppb, indicating rapid degradation of PCE but in complete degradation and the residual degradation product remains well in excess of the groundwater quality criteria of 5 ppb for that constituent. Jade expects that this DCE concentration will also degrade rapidly via:

1. dissolution now that the source has been removed; and,
2. dechloronation as a result of the continued hydrogen generation via the anaerobic conditions generated via the HRC application.

The next sampling in accordance with the revised sampling plan in July 2014.

3.2 Vapor Barrier/Sub-slab Depressurization

Our inspections reveal no evidence that the vapor barrier beneath the building has been breeched or compromised in any way since first installed. In addition, several weeks after the SSDS was turned off and soil gas migration allowed to return to natural paths, PCE and its degradation products were measured below the floor slab on both the north and south sides of the building at concentrations well below the state soil gas guidance value for PCE of 100 $\mu g/m^3$. The favorable results are further supported by the concentrations of CVOCs measured in indoor air again at levels well below the state indoor air guidelines value of 30 $\mu g/m^3$ for PCE. Based on readings, when in "active" operation (fan running), the manometer confirms a vacuum is being imposed on the atmosphere beneath the building.

3.3 Site Wide Cover System (SWCS) Integrity

The site wide cover, which covers every portion of the Site, consists of concrete slab, asphalt pavement or a 1' thick layer of topsoil. Based on our most recent inspection in June 2014, Jade concludes that the cap has not been breached in anyway other than by the two 2" probe penetrations advanced as part of the soil gas sampling detailed herein.

4. RECOMMENDATIONS

Based on the conclusions provided herein, Jade recommends the NSYDEC consider approving the following modifications to the Sites, Site Management Plan:

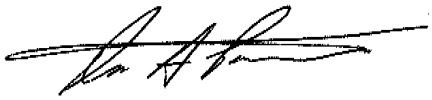
1. Disconnecting the power supply to the SSDS and revising its use from “active” to “passive”;
2. Discontinuing groundwater sampling in all wells except MW-2 on an annual basis (due next month);
3. Permanently closing wells MW-3 and MW-4, in addition to MW-1 and MW-5:

5. IC/EC CERTIFICATION / SIGNATURE PAGE

Based on multiple inspections of the Site, the most recent in June 2013, Jade certifies that no site activities have occurred that have compromised the integrity of the Institutional or Engineering Controls that apply to the Site. The Site Wide Cover System remains intact and sampling indicates residual levels of CVOCS are at or approaching applicable criteria and guidelines.

The activities detailed herein were planned and supervised by Dave Pelletier, P.E. an Environmental Engineer working in the environmental engineering field since 1984. Mr. Pelletier holds a Bachelors degree in Civil Engineering from Rensselaer Polytechnic Institute, and graduate level training from both Rensselaer Polytechnic Institute and Manhattan College with concentrations in geotechnical and water resource engineering. Mr. Pelletier is a New York State licensed professional engineer and holds multiple certifications in asbestos, Cathodic Protection System Testing and petroleum storage system development, testing and assessment.

Jade Environmental, Inc. further certifies that the conclusions and recommendations provided herein are based on sound engineering principles, commercially accepted standards and NYS Brownfield requirements all having the ultimate goal of reestablishing conditions protective of human health and the environment.



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Dave Pelletier, P.E.
Project Engineer

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Seal

APPENDIX A

SITE MAP

METES AND BOUNDS DESCRIPTION

LOT 1, BLOCK 7, SECTION 89.16
VILLAGE OF OSSINING, TOWN OF OSSINING
WESTCHESTER COUNTY, STATE OF NEW YORK

BEGINNING AT A POINT FORMED BY THE INTERSECTION OF THE NORTHEASTERLY LINE OF CLINTON AVENUE (60' WIDE) WITH THE SOUTHEASTERLY LINE OF CROTON AVENUE (A.K.A. ROUTE 133, F.K.A. CROTON–TURNPIKE AVENUE), AND FROM SAID BEGINNING POINT RUNNING, THENCE;

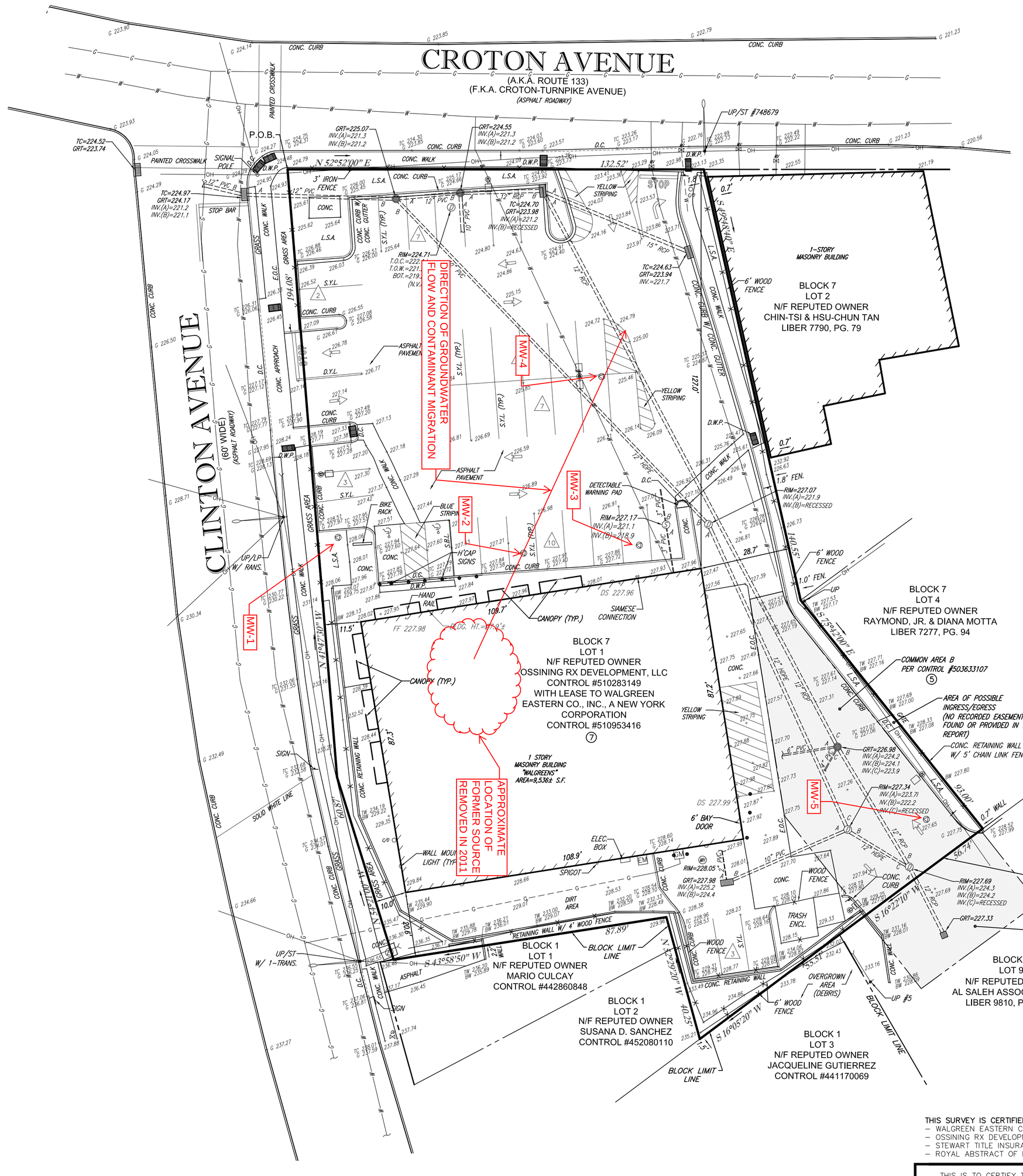
1. ALONG THE SOUTHEASTERLY LINE OF CROTON AVENUE, NORTH 52 DEGREES – 52 MINUTES – 00 SECONDS EAST, A DISTANCE OF 132.52 FEET TO A POINT, THENCE;
2. ALONG THE DIVIDING LINE BETWEEN LOT 1 AND LOT 2, BLOCK 7, SOUTH 49 DEGREES – 48 MINUTES – 40 SECONDS EAST, A DISTANCE OF 140.55 FEET TO A POINT, THENCE;
3. ALONG THE DIVIDING LINE BETWEEN LOT 1 AND LOT 4, BLOCK 7, SOUTH 75 DEGREES – 42 MINUTES – 00 SECONDS EAST, A DISTANCE OF 93.00 FEET TO A POINT, THENCE;
4. ALONG THE DIVIDING LINE BETWEEN LOT 1 AND LOT 9, BLOCK 7, SOUTH 16 DEGREES – 22 MINUTES – 10 SECONDS WEST, A DISTANCE OF 56.74 FEET TO A POINT, THENCE;
5. ALONG THE DIVIDING LINE BETWEEN LOT 1, BLOCK 7 AND LOT 3, BLOCK 1, SOUTH 16 DEGREES – 05 MINUTES – 20 SECONDS WEST, A DISTANCE OF 55.51 FEET TO A POINT, THENCE;
6. ALONG THE COMMON DIVIDING LINE BETWEEN LOT 1, BLOCK 7 AND LOTS 1 & 2, BLOCK 1, NORTH 52 DEGREES – 29 MINUTES – 20 SECONDS WEST, A DISTANCE OF 40.25 FEET TO A POINT, THENCE;
7. ALONG THE DIVIDING LINE BETWEEN BETWEEN LOT 1, BLOCK 7 AND LOT 1, BLOCK 1, SOUTH 43 DEGREES – 58 MINUTES – 50 SECONDS WEST, A DISTANCE OF 87.89 FEET TO A POINT, THENCE; ALONG THE NORTHEASTERLY LINE OF CLINTON AVENUE, THE FOLLOWING TWO (2) COURSES:
8. NORTH 54 DEGREES – 21 MINUTES – 00 SECONDS WEST, A DISTANCE OF 60.87 FEET TO A POINT, THENCE;
9. NORTH 41 DEGREES – 47 MINUTES – 30 SECONDS WEST, A DISTANCE OF 194.08 FEET TO THE POINT AND PLACE OF BEGINNING.

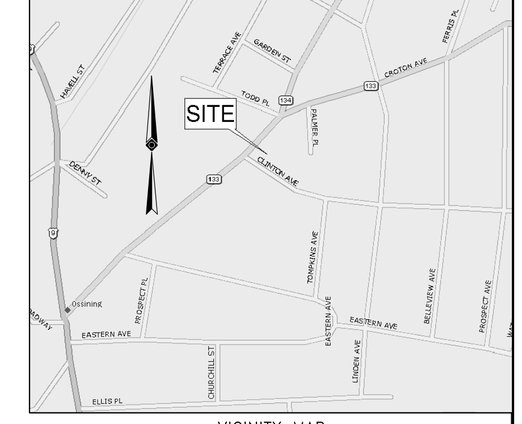
CONTAINING 39,271 SQUARE FEET OR 0.902 ACRE

THIS DESCRIPTION IS PREPARED WITH REFERENCE TO A TITLE REPORT PREPARED BY ROYAL ABSTRACT OF NEW YORK LLC, AGENT FOR STEWART TITLE INSURANCE COMPANY, TITLE NO. 901727, WITH AN EFFECTIVE DATE OF FEBRUARY 23, 2012.

LEGEND

× 123.45	EXISTING SPOT ELEVATION
×TC 123.45	EXIST. TOP OF CURB ELEVATION
×G 122.95	EXIST. GUTTER ELEVATION
×TW 123.45	EXIST. TOP OF WALL ELEVATION
×BW 122.95	EXIST. BOTTOM OF WALL ELEVATION
×FF 123.45	EXIST. FINISHED FLOOR ELEVATION
×DS 123.45	EXIST. DOOR SILL ELEVATION
WV	WATER VALVE
GM	GAS METER
EM	ELECTRIC METER
—OH—	OVERHEAD WIRES
—G—	APPROX. LOC. UNDERGROUND GAS LINE PER REF. #3
—W—	APPROX. LOC. UNDERGROUND WATER LINE PER REF. #3
UP	UTILITY POLE
UP/ST	UTILITY POLE/STREET LIGHT
	GUY WIRE
	STREET LGHT
	TRAFFIC SIGNAL POLE
	MONITORING WELL
	AREA LIGHT
D.W.P.	DETECTABLE WARNING PAD
S.B.L.	SOLID BLUE LINE
S.Y.L.	SOLID YELLOW LINE
D.Y.L.	DOUBLE YELLOW LINE
C/O	CLEAN OUT
	SIGN
	BOLLARD
	PAINTED ARROWS
T.O.C.	TOP OF CHAMBER
T.O.W.	TOP OF WATER
N.V.P.	NO VISIBLE PIPE
C.L.F.	CHAIN LINK FENCE
E.O.C.	EDGE OF CONC.
CONC.	CONCRETE
L.S.A.	LANDSCAPED AREA
(TYP.)	TYPICAL
DMH	DRAINAGE/STORM MANHOLE
EMH	ELECTRIC MANHOLE
SMH	SANITARY/SEWER MANHOLE
MH	UNKNOWN MANHOLE
10	PARKING SPACE COUNT
7	DENOTES TITLE REPORT EXCEPTION





VICINITY MAP

CONTROL #510283149

NOTES:

1. PROPERTY KNOWN AS LOT 1, BLOCK 7, SECTION 89.16 MAP 0056, VILLAGE OF OSSINING, TOWN OF OSSINING, WESTCHESTER COUNTY, STATE OF NEW YORK.
2. AREA = 39,271 S.F. OR 0.902 AC.
3. UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. BEFORE ANY SITE EVALUATION, PREPARATION OF DESIGN DOCUMENTS OR EXCAVATION IS TO BEGIN, THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE PROPER UTILITY COMPANIES.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY IS PREPARED WITH REFERENCE TO A TITLE REPORT PREPARED BY ROYAL ABSTRACT OF NEW YORK LLC, AGENT FOR STEWART TITLE INSURANCE COMPANY, TITLE NO. 901727, WITH AN EFFECTIVE DATE OF FEBRUARY 23, 2012 WHERE THE FOLLOWING SURVEY RELATED EXCEPTIONS APPEAR IN SCHEDULE B:
   - (5) RECIPROCAL EASEMENT AGREEMENT IN CONTROL NO. 503633107 – CROSS ACCESS EASEMENT BETWEEN LOT 1.7 AND LOT 9.7, MAP 0056 – SHOWN.
   - (7) TERMS, CONDITIONS AND PROVISIONS IN THAT ENVIRONMENTAL EASEMENT PER ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW IN CONTROL NO. 512923533 – RIGHT TO ENTER SUBJECT PREMISES FOR REMEDIATION PURPOSES – BLANKET IN NATURE.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2.
7. ELEVATIONS ARE BASED UPON BENCHMARKS SHOWN ON REF. #3 REPUTED TO BE NAVD 88.
8. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

REFERENCES:

1. THE OFFICIAL TAX MAP OF THE VILLAGE OF OSSINING, TOWN OF OSSINING, WESTCHESTER COUNTY, NEW YORK, MAP NO. 0056 & 0067.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP FOR WESTCHESTER COUNTY, NEW YORK (ALL JURISDICTIONS), CONTAINS: VILLAGE OF BRIARCLIFF MANOR, VILLAGE OF CROTON–ON–HUDSON, TOWN OF NEW CASTLE, TOWN OF OSSINING, VILLAGE OF OSSINING, PANEL 136 OF 426, MAP NUMBER 36119C0136F, EFFECTIVE DATE SEPTEMBER 28, 2007".
3. MAP ENTITLED "TOPOGRAPHIC SURVEY, #74–82 CROTON AVENUE, OSSINING, NEW YORK" PREPARED BY ESCHBACHER VHB, DATED JULY 25, 2008, SHEET 2 OF 2.
4. MAP ENTITLED "SITE PLAN, PROPOSED WALGREENS #12871, VILLAGE OF OSSINING, WESTCHESTER COUNTY, NEW YORK" PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED SEPTEMBER 17, 2008, LAST REVISED FEBRUARY 11, 2011 AS REVISION NO. 11.
5. MAP ENTITLED "EXTENDED MAP OF A PROPERTY OF THE HEIRS OF MATHEW CLARK IN THE TOWN OF OSSINING, WESTCHESTER COUNTY, DIVIDED INTO TOWN LOTS" PREPARED BY GEOFF CARTWRIGHT, DATED FEBRUARY 1, 1869 AND FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE ON APRIL 231869 AS MAP NO. 519.
6. MAP ENTITLED "MAP OF A PROPERTY OF THE HEIRS OF MATHEW CLARK IN THE TOWN OF OSSINING, WESTCHESTER COUNTY, DIVIDED INTO TOWN LOTS" PREPARED BY GEOFF CARTWRIGHT, DATED MAY 1, 1868 AND FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE ON AUGUST 23, 1871 AS MAP NO. 360.
7. MAP ENTITLED "SIDEWALK AS–BUILT PLAN, WALGREENS #12871, CROTON AVENUE, LOT 1.7, MAP 0056, VILLAGE OF OSSINING, TOWN OF OSSINING, WESTCHESTER COUNTY, STATE OF NEW YORK" PREPARED BY CONTROL POINT ASSOCIATES, INC. DATED MAY 4, 2012.

THE STATE OF NEW YORK REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.
(1–800–962–7962)

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB–DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

THIS SURVEY IS CERTIFIED TO:
- WALGREEN EASTERN CO., INC., A NEW YORK CORPORATION
- OSSINING RX DEVELOPMENT LLC, A DELAWARE LIMITED LIABILITY COMPANY
- STEWART TITLE INSURANCE COMPANY
- ROYAL ABSTRACT OF NEW YORK, LLC

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE "2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 8, 9, 11 & 13 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 3, 2012.

NOT A VALID ORIGINAL DOCUMENT UNLESS STAMPED WITH BLUE INK SEAL

James C. Weed 5–22–2012
DATE

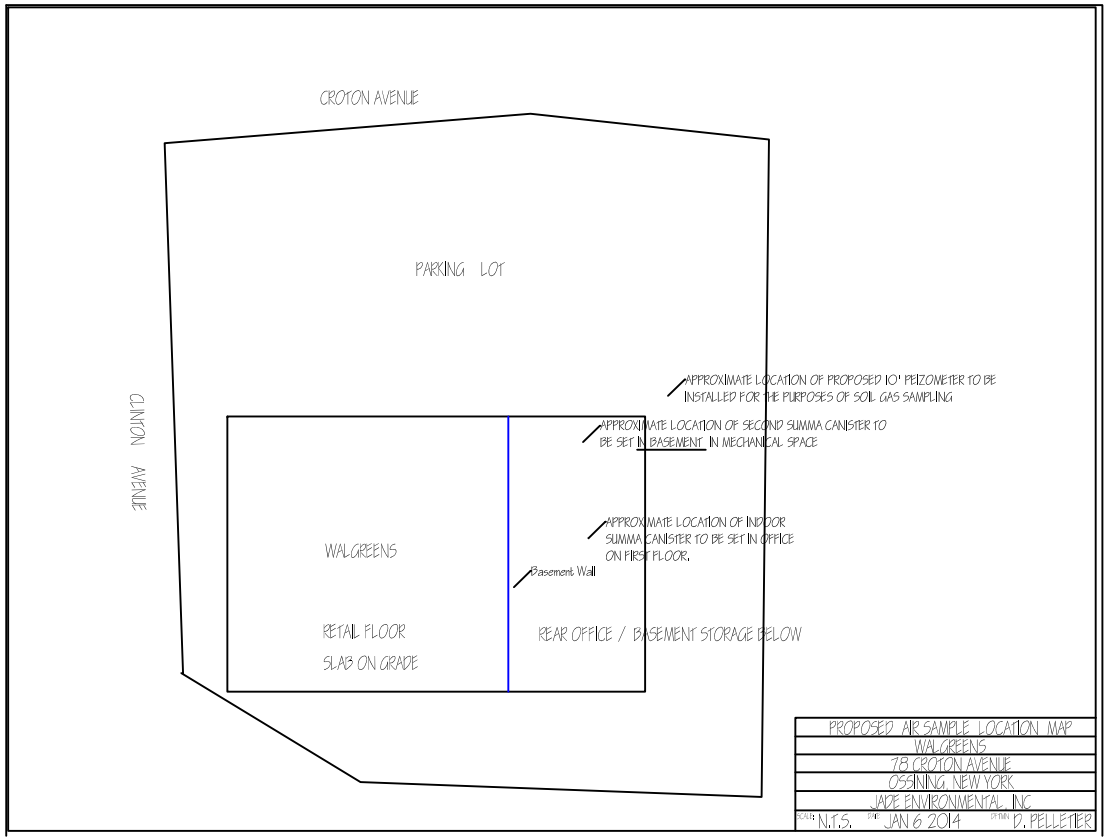
JAMES C. WEED
NEW YORK PROFESSIONAL LAND SURVEYOR #50765

FIELD DATE	5–3–2012
FIELD BOOK NO.	12–03
FIELD BOOK PG.	140
FIELD CREW	T.M./J.J.
DRAWN:	E.S.E.
REVIEWED:	P.J.

ALTA/ACSM LAND TITLE SURVEY
Walgreens #12871
78 CROTON AVENUE
LOT 1, BLOCK 7, SECTION 89.16
VILLAGE OF OSSINING, TOWN OF OSSINING
WESTCHESTER COUNTY, STATE OF NEW YORK

CONTROL POINT ASSOCIATES, INC.
35 TECHNOLOGY DRIVE
WARREN, NJ 07059
908.668.0099 - 908.668.9595 FAX
CHALFONT, PA 215.712.9800
SOUTHBOROUGH, MA 508.948.3000

APPROVED:	DATE	SCALE	FILE NO.	DWG. NO.
J.C.W.	5–22–2012	1"=20'	C12135	1 OF 1


CROTON AVENUE
PARKING LOT
CLINTON AVENUE
APPROXIMATE LOCATION OF PROPOSED 10' PEIZOMETER TO BE INSTALLED FOR THE PURPOSES OF SOIL GAS SAMPLING
APPROXIMATE LOCATION OF SECOND SUMMA CANISTER TO BE SET IN BASEMENT IN MECHANICAL SPACE
APPROXIMATE LOCATION OF INDOOR SUMMA CANISTER TO BE SET IN OFFICE ON FIRST FLOOR.
WALGREENS
Basement Wall
RETAIL FLOOR
SLAB ON GRADE
REAR OFFICE / BASEMENT STORAGE BELOW
PROPOSED AIR SAMPLE LOCATION MAP
WALGREENS
78 CROTON AVENUE
OSSINING, NEW YORK
JADE ENVIRONMENTAL, INC
SCALE: N.T.S. DATE: JAN 6 2014 DRAWN: D. PELLETIER

APPENDIX B

NYSDEC APPROVAL LETTER

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C, 11th Floor
625 Broadway, Albany, New York 12233-7014
Phone: (518) 402-9662 • **Fax:** (518) 402-9679
Website: www.dec.ny.gov

Joe Martens
Commissioner

July 19, 2013

Ossining R.X Development, LLC.
Attn: Sally Krauss
580 White Plains Road
Tarrytown, NY 10591

Re: Periodic Review Report
Clinton Terrace Shopping Center Site (C360110)
Ossining, Westchester County

Dear Ms. Krauss,

The New York State Department of Environmental Conservation (Department) and New York State Department of Health (NYSDOH) have reviewed the Periodic Review Report (PRR) for the above site. Upon review, it has been determined that corrective measures are needed. Therefore, the Department disapproves the document. The following modifications are requested:

Corrective Measures

Section 2.3 – The sub-slab depressurization system (SSDS) has not been tested since its installation. Thus, follow up work is needed to ensure it is operating effectively. Therefore, please submit a brief work plan that summarizes procedures to complete pressure differential testing in the on-site building. Also, a manometer should be installed for the SSDS to document vacuum conditions beneath the building.

General PRR Comments

1. The cover page of the PRR should be updated to include the entire site number (C360110).

2. Section 1.1.2 – The statement "all soil contamination had been removed" is inaccurate as tetrachloroethene was detected above 1.3 ppm in one of the excavation end point samples. The statement should be removed or revised.

3. In box 2 of the PRR questionnaire, question 6 is marked no. Please confirm whether or not this is correct.

4. Section 3, Conclusions/Recommendations, should be updated following the implementation of the Corrective Measures for the SSDS.

I may be contacted by email at jymiller@gw.dec.state.ny.us or 518-402-9564 with any questions or comments.

Sincerely,

John B. Miller, P.E.
Project Manager

cc: Mr. David Pelletier, P.E.
President
Jade Environmental, Inc.
59 Circle Drive
Hopewell Junction, NY 12533
dpelletierpe@jadeenv.com

ec: J. Candiloro (DER)
N. Walz (DOH)

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

Joe Martens
Commissioner

2/18/2014

Sally Krauss
Ossining Development RX, LLC
580 White Plains Road
Tarrytown, NY 10591

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Clinton Terrace Shopping Center
Site No.: C360110
Site Address: 74-82 Croton Avenue
Ossining, NY 10562

Dear Sally Krauss:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **April 29, 2014**. Guidance on the content of a PRR is enclosed.

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

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

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

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

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

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

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, NY 12233-7014

Phone number: 518-402-9589. E-mail: jymiller@gw.dec.state.ny.us

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

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

cc: w/ enclosures
Robert W. Mehlich
Anne C.S. Mehlich
Cheryl Schmitz

ec: w/ enclosures
John Miller, Project Manager
James Candiloro, Section Chief
Edward Moore, Hazardous Waste Remediation Engineer, Region 3
David Pelletier, Jade Environmental

Enclosure 1

Certification Instructions

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

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

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

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

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

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

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

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

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

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2

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

Site Details **Box 1**

Site No. **C360110**

Site Name Clinton Terrace Shopping Center

Site Address: 74-82 Croton Avenue Zip Code: 10562
City/Town: Ossining
County: Westchester
Site Acreage: 0.9

Reporting Period: December 22, 2011 to March 30, 2014

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

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C360110 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
89.16-7-1	Ossining RX Development, LLC	Ground Water Use Restriction Landuse Restriction Building Use Restriction Monitoring Plan Site Management Plan IC/EC Plan

Environmental Easement
-Groundwater Use Restrictions
-Land Use Restriction (commercial)

Institutional Controls
-Compliance with Easement
-ECs maintained in accordance with SMP
-Groundwater Monitoring in accordance with SMP
- Periodic Reporting in accordance with SMP

Box 4

Description of Engineering Controls

Parcel	Engineering Control
89.16-7-1	Vapor Mitigation ✓ Cover System ✓

Engineering Controls
-Soil Cover
-Vapor Barrier
-Sub-Slab Depressurization System

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☑	☐

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

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

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

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

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

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

YES	NO
☑	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C360110

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Dave Pelletier, P.E. at 59 Circle Dr., Wingdale, NY 12533
print name print business address

am certifying as Remedial Engineer (Owner or Remedial Party)

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

Signature of Owner, ~~Remedial Party~~, or Designated Representative ~~Rendering~~ Certification

6/20/14
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Dave Pelletier PE at 59 Circle Dr. Wingdale, NY 12537,
print name / print business address

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

STATE OF NEW YORK DAVE A PELLETIER LICENSED PROFESSIONAL ENGINEER 082127-1

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

(Required for PE)

Date 5/20/14

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

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

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

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

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

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

VIII. Additional Guidance

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

JADE ENVIRONMENTAL, INC. dpelletierpe@jadeenv.com
59 Circle Dr., Suite 100, Hopewell Junction, New York 12533 (845) 724-7010 tel. (845) 701-1376 efax

December 9, 2013
(rev January 7, 2014)

John Miller, Project Supervisor
NYSDEC --Transmitted Electronically--
Division of Environmental Remediation
625 Broadway, Albany, NY 12233-7014

Re: Final Proposed Soil Gas and Indoor Air Testing Plan
Walgreens Brownfield Project C360110
Clinton & Croton Avenues, Ossining, New York

Dear Inspector Miller:

Jade Environmental, Inc. is pleased to submit the following Final Proposed Work Plan to conduct indoor air and soil gas testing as requested by the New York state Department of Environmental Conservation and the New York State Department of Health as a result of the on-going monitoring at the above referenced property. This plan includes revisions based on NYSDOH input. Importantly, the active Sub-slab Depressurization System will be shut down a minimum 30 days before any testing proposed herein is commenced. Jade will notify both the NYSDEC and NYSDOH of the sampling plan at least 10 days prior to implementation.

Proposed Indoor Air Sampling

Specifically, Jade proposes conducting two indoor air sampling using standard 6 liter summa canisters set with 8 hour regulators to mimic daily property use. Prior to sampling a chemical inventory will be conducted documenting chemicals stored and their condition. One canister will be set in the basement and the second in the back room or office of the building. Every effort to keep exterior building openings sealed will be made for the week prior and during the sampling. During the testing, access to the area of the canisters will be cordoned off to eliminate potential contact with building tenants.

Proposed Deep Soil Gas Sampling (Basement Simulation)

In addition, Jade proposes installing one deep 1" PVC well point to a depth of 10' adjacent the northeast side of the building to access soil gas (just above groundwater at 12') from soil in proximity to the basement floor slab. The borehole will be advanced utilizing direct push technology via Geoprobe® Macrocore® Sampler. Once the boring is complete, a new 10' length of 20 slot PVC screen with a 1" inside diameter will be installed inside the open boring. The annular space between the screen and the boring wall will be filled with new #2 silica well gravel to within 2' of grade. The gravel pack will covered a minimum 1.5' of bentonite chips hydrated in-place with approximately ½ gallon of tap water. The remaining 6" of annulus will be filled with blacktop to match surrounding surface. The well pipe will be capped with a flush cap.

The well point will be allowed to stabilize for a minimum 1 week before the sampling event begins. Upon return to each well point to start the sampling, each cap will be removed and each well point evacuated using a standard vacuum pump via new dedicated silicone or polyethylene tubing of multiple well volumes at a rate not to exceed 0.2 l/min. After the evacuation, a soil gas implant will be lowered into the well point attached to the dedicated tubing to a point approximately 6" from the bottom of the point. The tubing will be connected to the summa canister at grade and all appropriate data logged accordingly. The annulus between the tubing and the well screen will be plugged with a plug of non-shrinking / non-VOC containing putty to keep out above grade air. Sample tubing will traverse a rubber plug set into the putty. The summa canister will be secured from vandalism and the test initiated. Just prior to the 8 hour open time, the canister valve will be closed, the well point sealed closed and the canister couriered to a state licensed laboratory for sample analysis via TO-15 under proper chain of custody and the final Category B report validated by the labs consultant.

Proposed Shallow Soil Gas Sampling (Retail Floor Simulation)

A second shallow well point to 3' below grade will be placed on the south side of the building (between building and Clinton Avenue) to simulate soil gas conditions beneath the on-grade floor slab of the retail space, and the closest location of the original solvent release. **Sampling will be initiated with and in the exact same manner as described for the deeper well point above.**

Conclusions

Jade will present the results to both the NYSDEC and NYSDOH in a detailed letter report within 2 weeks of obtaining sample results from the lab.

Jade will consult with both departments as to the appropriate next steps to address results exceeding applicable CSGs, if that is the case.

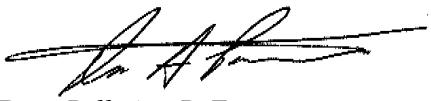
As a result of the very expensive and critically installed liner beneath the building, Jade concludes it is unlikely any exceedences will be identified inside the building. If this is the case, Jade will propose in our report the termination of the active system and replacement of same with a passive system which will include replacing the in-line fan with a rain hood.

Jade remains uncertain as to any activity if any will be initiated as a result of soil gas levels exceeding SCGs outside the building (as is expected) other than continuing with the on-going enhanced natural attenuation process currently underway.

As always, we look forward to your input. If you any questions at any time, please do not hesitate to call.

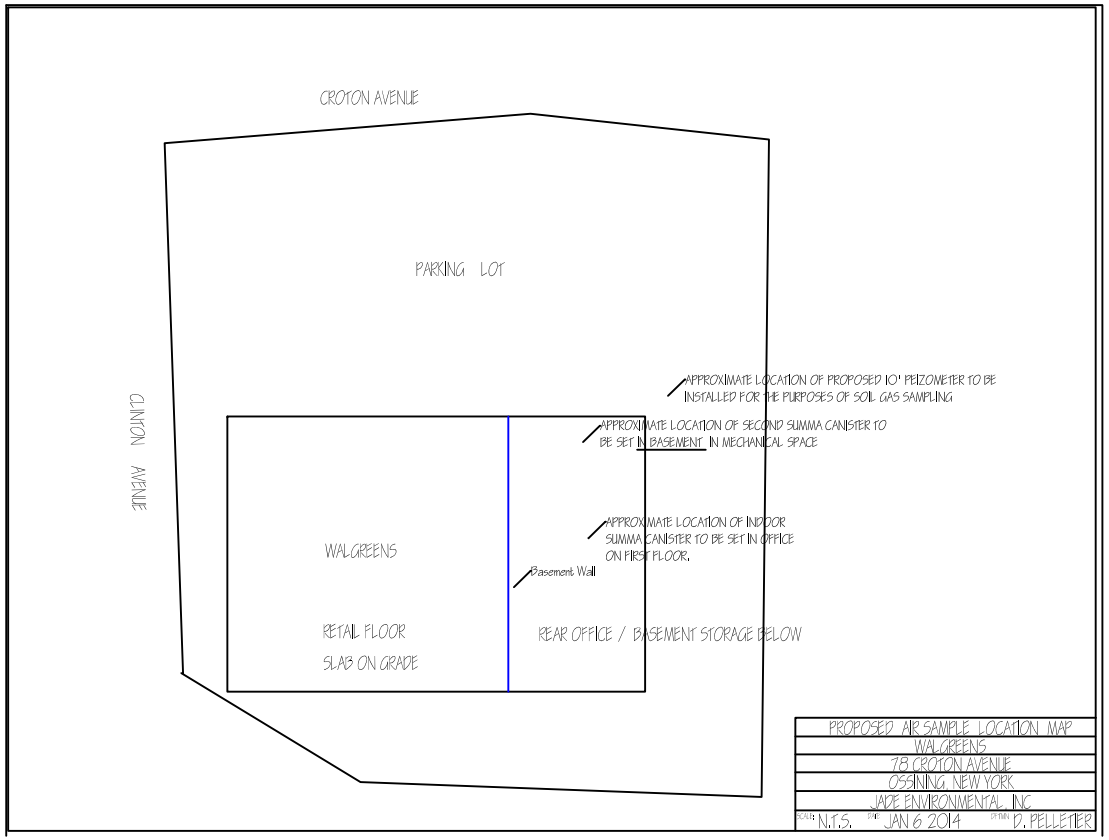
Sincerely,

Jade Environmental, Inc.



Dave Pelletier, P. E.
Project Engineer

Site map attached


CROTON AVENUE
PARKING LOT
CLINTON AVENUE
APPROXIMATE LOCATION OF PROPOSED 10' PEIZOMETER TO BE INSTALLED FOR THE PURPOSES OF SOIL GAS SAMPLING
APPROXIMATE LOCATION OF SECOND SUMMA CANISTER TO BE SET IN BASEMENT IN MECHANICAL SPACE
APPROXIMATE LOCATION OF INDOOR SUMMA CANISTER TO BE SET IN OFFICE ON FIRST FLOOR.
WALGREENS
Basement Wall
RETAIL FLOOR
SLAB ON GRADE
REAR OFFICE / BASEMENT STORAGE BELOW
PROPOSED AIR SAMPLE LOCATION MAP
WALGREENS
78 CROTON AVENUE
OSSINING, NEW YORK
JADE ENVIRONMENTAL, INC
SCALE: N.T.S. DATE: JAN 6 2014 DRAWN: D. PELLETIER

APPENDIX C

ORIGINAL SITE MANAGEMENT PLAN

Clinton Terrace Shopping Center

WESTCHETER COUNTY, NEW YORK

Site Management Plan

NYSDEC Site Number: C360110

Prepared for:
Ossining Rx Development, LLC
Tarrytown, NY

Prepared by:
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Hopewell Junction, NY
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Revisions to Final Approval:

Revision #	Submitted Date	Summary of Revision	DEC Approval Date
4-10-12-001	April 10, 2012	Groundwater discharge monitoring	4-23-2012

NOVEMBER, 2011

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SITE MANAGEMENT PLAN

1.0 INTRO / DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at the former Clinton Terrace Shopping Center (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index# C360110 which was executed on October 18, 2009.

1.1.1 General

Ossining Rx Development, LLC and Mehlich Associates (hereinafter referred to as the "Remedial Party") entered into a BCA with the NYSDEC to remediate a one acre parcel of commercial property located in Village of Ossining, Westchester County, New York. This BCA required the Remedial Party investigate and remediate contaminated media at the site. A figure showing the site location and boundaries of this 1-acre site is provided in Figure 1 below. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement attached as appendix A.

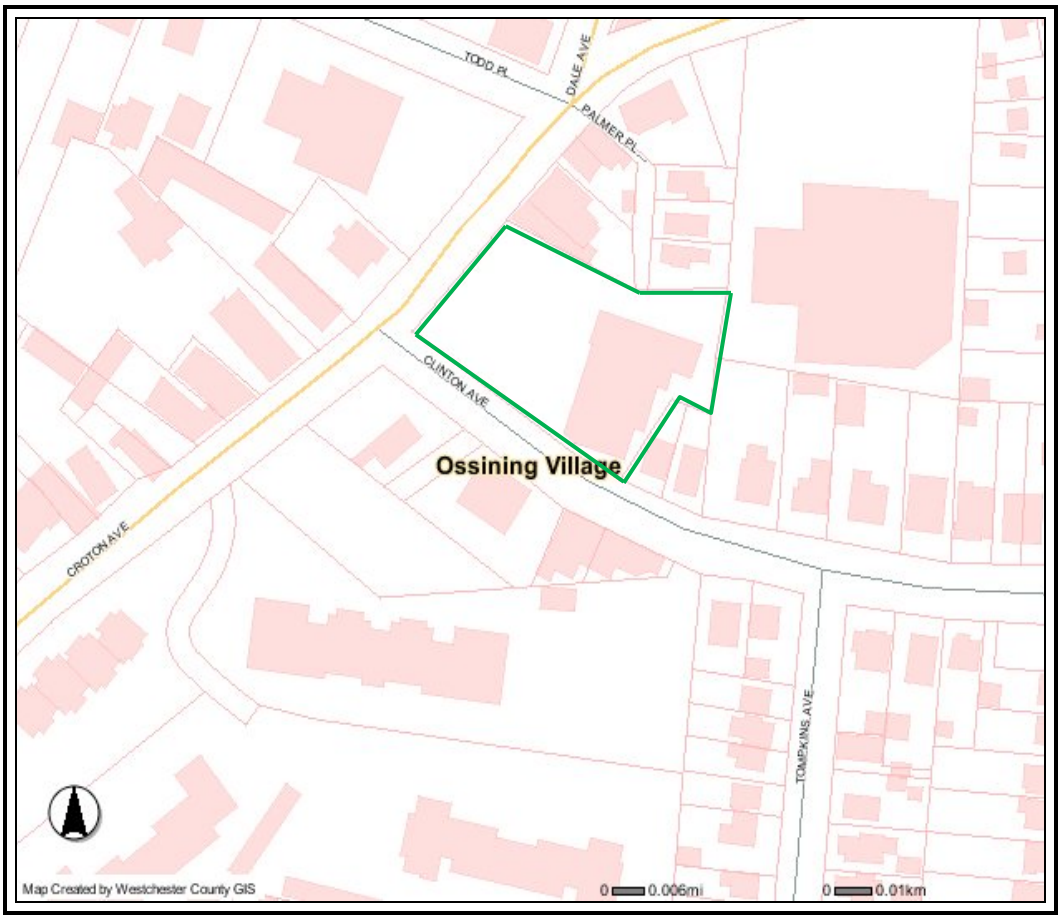


Figure 1 – Site Location Map

After completion of the remedial work described in the Remedial Action Work Plan, some contamination was left in groundwater at this site at concentrations exceeding state regulatory limits, which is hereafter referred to as 'remaining contamination." This Site Management Plan (SMP) was prepared to manage remaining contamination at the site until the Environmental Easement is removed in accordance with ECL Article 71, Title 36. All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was prepared by Jade Environmental, Inc., on behalf of Ossining Rx Development, LLC, the end user, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 3, 2010 and the guidelines provided by NYSDEC. This SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the site.

1.1.2 Purpose

The site contains residual contamination left behind after completion of the remedial action. Engineering Controls have been incorporated into the site remedy to control exposure to residual contamination during site use and ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Westchester County Clerk, will require compliance with this SMP and all ECs and ICs placed on the site. The ICs place restrictions on site use, and mandate operation, maintenance, monitoring and reporting for all ECs and ICs.

This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage residual contamination at the site after completion of the Remedial Action, including:

(1) implementation and management of all Engineering and Institutional Controls;
(2) media monitoring;
(3) O&M of all treatment, collection, containment, or recovery systems;
(4) Periodic inspections, certifications, and Periodic Review Reports; and
(5) defining criteria for termination of treatment system operations.

To address these needs, this SMP includes three plans:

(1) an Engineering and Institutional Control Plan;
(2) a Monitoring Plan; and
(3) an Operation and Maintenance Plan.

This SMP also includes a description of Periodic Review Reports detailing the periodic filing of inspection results, recommendations, and certifications required by the NYSDEC.

It is important to note that:

- **This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement**

the SMP is a violation of the environmental easement, which is grounds for revocation of the Certificate of Completion (COC); and

- **Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA Site # C360110 for the site, and thereby subject to applicable penalties.**

1.1.3 Revisions

Revisions to this plan must be proposed in writing to the NYSDEC's project manager. In accordance with the Environmental Easement for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the approved SMP.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The Site is located in the Village Of Ossining, County of Westchester County, New York and is identified as Section 89.16 Block 7 and Lot 1 by the Village of Ossining Tax Assessor. The Site is approximately 1-acre and bounded by Croton Avenue to the west, Clinton Avenue to the south, mixed commercial and residential development to the north and single family dwellings to the east (see Figure 1). The boundaries of the site are more fully described in Appendix A – Metes and Bounds.

1.2.2 Site History

Historical data indicates the site was developed with two (2) two-story single family dwellings fronting Clinton and Croton Avenues built in the 1800s. Historical data indicates both dwellings may have also been used for light commercial purposes including a bakery and a fishing reel retailer. The two dwellings were purchased, the lots combined and the dwellings razed in about 1954. By 1956 a single story block commercial structure occupied by a grocery store "Gristedes" was constructed in the northeast corner of the property, which comprised the two (2) northern most units of the former shopping center (razed March 2011). The remainder of the property was asphalt paved and used for patron parking.

In 1961 an addition was appended to the southern side of the building, more than doubling the size of the building to a total of approximately 10,000 SF. The building and property as a whole had not changed since the addition in 1961 (50 years).

The southernmost unit of the addition was tenanted by a laundry mat which included a Westinghouse Coin-Operating Dry Cleaning facility containing 10 solvent washers in the northwest corner of the tenant space. Records indicate the laundry mat opened their doors in January 1961 and continued in operation until approximately 1975. Specific data was unavailable to confirm or deny whether dry cleaning was conducted during the entire existence of the laundry mat. In 1975, the laundry facility was converted into a pharmacy and a cheese shop. The pharmacy later expanded into the cheese shop space and was in operation during the initial investigations of the Site which began in 2008. As part of this Brownfield project the commercial building was razed in March 2011.

1.2.3 Geologic Conditions

Based on inspection, surficial deposits across the Site consist of glacial till, and fill material which appears to have originated as glacial till, likely from a nearby - possibly on-site - source. Typical till consists of varying components of clay, silt and sand with gravel. Based on soil inspection, it appears that some of the Site has been filled with up to as much as 14 feet of soil.

At boring WP-2, a suspected remnant wetland formation was identified at 14 feet below surface grade (bsg), in the form of a meadow mat. Beneath the meadow mat is typical decomposing organic materials above an aquitard of dense gray mottled silt and clay.

State geology maps provided by the New York State Department of Education indicates that Ossining is located at the northern end of a bedrock formation referred to as the Manhattan Prong and comprised primarily of highly glaciated schist, gneiss and marble. At the southeast corner of the site, bedrock is at grade and rises to almost roof grade behind the south exterior wall near the sidewalk along Clinton Avenue. Borings in the alley behind the southeast corner of the building identified bedrock approximately 3 feet below grade. Borings SB-21 and SB-22, located approximately 15’ north of the south exterior wall inside the building, encountered rock at 4-6’ bsg. Borings SB-4, 5 and 6 located approximately 20’ north of the south exterior wall in the parking lot in front of the pharmacy, encountered bedrock between 7-12’ bsg. At WP-11, centrally located between the north and south property lines, the boring was terminated at over 30’ bsg, indicating that the bedrock dips significantly to the north, possibly vertically in areas.

Groundwater is 10’ below surface grade (“bsg”) at the up gradient southeast corner of the property and dips approximately 13’ bsg near the down gradient northwest corner of the Site. Please refer to the Groundwater Contour Map provided as Appendix B for a

depiction of the potentiometric surface of the upper aquifer. As can be seen on the map, groundwater beneath the site generally flows in a northwesterly direction.

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the Remedial Investigation / Feasibility Study (RI/FS) dated approved on October 25, 2010.

Generally, the RI/FS determined that a source of Tetrachloroethene ("TCE").
TCE was present in soil beneath the former coin operated machines in the northwest corner of the southern most retail unit. Historical records indicated that the dry cleaner had an underground spill overflow tank that would collect any inadvertently spilled TCE from the business's day to day operations. This information was confirmed during the site's investigation activities. Soil samples collected from the vicinity of the overflow tank indicate that discharges occurred from its plumbing, possibly a loose elbow. Over the dry cleaner's years of operations, a "source" of TCE resulted in the shallow soil beneath the former dry cleaning equipment as a result of these discharges.

Site-Related Groundwater

Because the release was beneath the building floor slab and protected from the effects of stormwater percolation, the investigation did confirm gravity accelerated dispersion resulted in TCE reaching the saturated zone 10' below grade. The groundwater carried the dissolved TCE along its natural flow pattern in a northwesterly direction beneath the front of the former shopping center building and then beneath the parking lot. Testing revealed little if any TCE had been carried off-site with groundwater.

Site-Related Soil Vapor Intrusion

TCEAs required by DER-10, Jade gained access into the north adjacent residence and collected two soil gas samples as well as a basement indoor air sample. The purpose of the sampling was to ascertain whether soil vapor intrusion was impacting or had the potential to impact the off-site property. The results of the soil gas/indoor air quality survey were inconclusive. The Department plans to complete additional soil vapor intrusion sampling in the future. The RI/FS and maps and survey's therewith provide in-depth detail into the nature and extent of the TCE contamination in both soil and groundwater beneath the Site. The investigation also confirms no other regulated contaminants exist in site soil/groundwater except a small area of SVOCs in soil beneath the parking lot attributed to ash observed in the subsurface during sampling in this area. The presence of the low levels of SVOCs was attributed to the site's historical fill and it

was determined that a site cover system would address this concern. Other than some limited delineation efforts, no additional contaminant investigation was conducted.

1.4 SUMMARY OF REMEDIAL ACTIONS

The site was remediated in accordance with the NYSDEC-approved February 2011 Decision Document.

The following is a summary of the Remedial Actions performed at the site:

1. Excavation and removal of the storage tank and plumbing system and proper disposal of the residual TCE remaining in the storage tank. It was during this removal this system that the loose piping was identified and the heaviest soil contamination identified beneath the loose elbow, the expected discharge point.

2. Installation of a groundwater dewatering / treatment system to drop the water table from 10’ below grade to 15’ below grade so that excavation could proceed below the static water table.

3. Excavation of soil/fill beneath the discharge point contaminated above unrestricted SCOs listed in 6 Part 375 -6.8(b) Table 11.1 (protection of groundwater), to a depth of 13+ feet below the first floor elevation of the former retail building.

4. Backfilling of the saturated zone and lower vadose zone with highly permeable crushed stone to promote aeration and effectuated rapid distribution of Hydrogen reducing compound throughout the excavation.

5. Application of hydrogen releasing compound (HRC) in order to encourage indigenous anaerobic bacteria growth and the subsequent dechlorination of residual contaminants during the natural metabolism of the bacteria.

6. Installation of a permeable vapor barrier to minimize communication between potentially contaminated below grade and above grade atmospheres.

7. Installation of a sub-slab depressurization system to create a negative pressure differential between below grade and above grade atmospheres so should a migration of gases occur that migration would be from interior room space (higher pressure) to the sub

slab (low pressure), further protecting the interior breathing zone from potential harmful sub-slab vapor intrusion;

8. Construction and maintenance of a cover system comprised of concrete and / or a 12" layer of certified clean fill (i.e. top soil) to prevent future human exposure to any residual contaminated soil/fill remaining at the site;

9. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.

10. Development and implementation of this Site Management Plan for long term management of residual contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

Active remedial work was conducted between May 15 and July 15, 2011. Installation of vapor barrier, sub-slab depressurization and cover control system were completed during the building construction between July 15 and October 15, 2011 .

1.4.1 Removal of Contaminated Media from the Site

As part of the remedial efforts, after the building was removed, a total of 1150 tons of non-hazardous TCE contaminated soil and 112 tons of contaminated soil that characterized as hazardous due to contaminant concentration/leachability was excavated from beneath the discharge point and appropriately disposed off-site. The contaminated soil was excavated to a minimum depth of 12 feet below grade. The PCE source area was predominantly removed and its break down components (e.g. TCE, xDCE and VC) that remain at the site will be significantly reduced as a result of the PCE mitigation efforts.

A list of the soil cleanup objectives (SCOs) for the primary contaminants of concern (COCs) and applicable land use for this site is provided in Table 1 below.

Table 1- Applicable SCOs

Constituent	Unrestricted Use Soil Clean-up Objective (ppb)
1,2-Dichloroethane	20
cis-1,2-Dichloroethene	250
trans-1,2-Dichloroethene	190
Tetrachloroethene	1,300
Trichloroethene	470
Vinyl chloride	20

A figure showing areas where excavation was performed is shown in maps provided in Appendix B.

1.4.2 Site-Related Treatment Systems

Other than application of HRC and monitoring thereof in addition to on-going monitoring of the residual contaminant plume in groundwater, no long-term treatment systems were installed as part of the site remedy.

1.4.3 Remaining Contamination

Table 2 summarizes the analytical results from the post excavation soil sampling. After completion of the Remedial Action activities, very limited soil contamination remains at the site that exceeds the Track 1 (unrestricted) SCOs. This contamination was not feasibly removed during excavation.

Table 2- Post Excavation End-point Soil Sample Analysis Results

End-Point Sample Id	Contaminant SCO ppb)			
	TCE (1,300)	TCE (470)	DCE	VC (20)
North Wall	5,700 (1,300)	<5.7	<5.7	<5.7
South Wall	<5.5	<5.5	<5.5	<5.5
East Wall	4,000 (1,800)	<5.6	<5.6	<5.6
West Wall	420	<150	<150	<150
North Bottom	9,800 (42)	<280	<280	<280
South Bottom	11	<5.9	<5.9	<5.9

Notes:

1. All concentrations reported in parts per billion (ppb)
2. Concentrations in parenthesis include results from resampling after additional excavation/stockpiling was deemed required based on end-point sampling results exceeding applicable SCOs.
3. No third sampling of the east wall was conducted after obtaining the 1800 ppb result as additional excavation extended to the basement wall of the building, so additional sampling was not possible.

2.0 ENGINEERING / INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since low levels of TCE as well as its breakdown components remain beneath the site, Engineering and Institutional Controls (EC/ICs) are required to ensure protection of human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all approved EC/ICs at the site. The EC/IC Plan is one component of this SMP. The NYSDEC reserves the right to revise EC/ICs as needed any time during its implementation.

2.1.2 Purpose

This plan provides:

- A description of all EC/ICs on the site;
- The basic implementation and intended role of each EC/IC;
- A description of the ICs set forth in the Environmental Easement;
- A description of the components required of each periodic inspection and essential components of the periodic inspection reports;
- A description of plans and procedures to be followed in the event a deviation of the EC/ICs was required, such as the implementation of the Excavation Work Plan for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site that required breech of the cover system and contact with soil potentially contaminated with residual:

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

2.2.1.1 Soil Cover

Exposure to soil/fill at the site will be limited by a soil or concrete cover system placed over the site. This cover system is comprised of a minimum of 12 inches of clean soil or 4+ inch thick layer of asphalt pavement or concrete (i.e. sidewalks, building slabs, asphalt parking areas). In the event the cover system is required to be breached, penetrated or temporarily removed, and any underlying soil disturbed, a work plan will have to be first approved by the site engineer and/or the NYSDEC. The site engineer will be required to inspect, maintain and certify competence of the cover system annually as required by this SMP.

2.2.1.2 Vapor Barrier

To minimize the communication of gases between interior and subslab atmospheres, a vapor barrier will be installed comprised of a layer of 6 mil polyethylene sheeting. The sheeting will be oriented in a manner that minimizes the number of pieces of sheeting required to cover the entire footprint of the building. Where two separate pieces are required, the two sheets will overlap by a minimum of 2' and be adhered to each other using two continuous ¼" beads of 100% silicone. At exterior walls/foundations, the sheeting will drop a minimum 6" down the wall of the building and be adhered to the wall again using continuous beads of silicone. The concrete slab will be installed immediately after installation of the vapor barrier to minimize worker contact and ensure its integrity.

2.2.1.3 Sub-slab Depressurization Systems

Procedures for monitoring the sub-slab depressurization system are included in the Monitoring Plan (Section 3 of this SMP). The sub-slab depressurization system will include the installation of a highly permeable sub-slab layer of ¾" crushed stone with a minimum thickness of 6" fitted with perforated PVC pipe fully imbedded in the stone and stubbed out behind the building so that no perforations of the floor slab are required. Once the building is erected, a sub-slab depressurization will be completed by connecting the piping stubs to a radon extraction / in-line fan system, which will be fixed to the rear

wall of the building and vent above the roof line. The crushed stone will be covered with an impermeable membrane sealed at the edges with a double bead of 100 % silicone.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial goals identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

2.2.2.1 Composite Cover System

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals.

2.2.2.2 Vapor Barrier

The vapor barrier is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals.

2.2.2.3 Sub-slab Depressurization System (SSDS)

The active SSD system will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

2.2.2.4 Groundwater Monitoring

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be below NYSDEC standards. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC.

2.3 INSTITUTIONAL CONTROLS

A series of Institutional Controls is required by the SMP to:

(1) detail the implementation, maintenance and monitoring Engineering Control systems;

(2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface; and,

(3) limit the use and development of the site to non-residential uses only.

Adherence to these Institutional Controls on the site is required by the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls require:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls be operated/maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property be inspected at a frequency and in a manner defined in the SMP.
- Groundwater monitoring as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property be reported at the frequency and in a manner defined in this SMP;

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or termination of the Environmental Easement.

The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as restricted residential use without amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining soil must be conducted in accordance with the excavation work plan contained in this;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

- The potential for vapor intrusion must be evaluated for any future buildings and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.3.1 Excavation Work Plan

The site has been remediated for restricted use. Any future intrusive work that will penetrate the soil cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in compliance with an Excavation Work Plan (EWP) prepared for each such event and approved by the NYSDEC. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the site. A sample HASP is attached as Appendix C to this SMP that is in current compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5).

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining

contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The site owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

Prior to the construction of any enclosed structures on the site in the future, an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to the property owner within 30 days of validation.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of all remedial components installed at the site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system;

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the site by a qualified environmental professional as determined by NYSDEC.

2.4.2 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Brownfield Cleanup Agreement (BCA), 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.

- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Brownfield Cleanup Agreement (BCA), and all approved work plans and reports, including this SMP
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

2.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to qualified environmental professional. These emergency contact lists must be maintained in an easily accessible location at the site.

Table 3: Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362
Owner - DLC Mgmt Corp	914-631-3131
Site Engineer – Jade Environmental, Inc.	(845) 897-2188

* Note: Contact numbers subject to change and should be updated as necessary

2.5.2 Map and Directions to Nearest Health Facility

Site Location: Ambulance –southwest across Clinton Avenue

Nearest Hospital Name: Phelps Memorial Hospital

Hospital Location: 701 N Broadway (S.R. 9) Sleepy Hollow, New York 10591

Hospital Telephone: (914) 366 -3000 or 911

Directions to the Hospital: South on Croton Avenue 300 yds. to Route 9. Left (south) onto Route 9 – continue 4 miles to hospital on right.

Total Distance: 4.2 miles

Total Estimated Time: 10-11 minutes

2.5.3 Response Procedures

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Plan. The list will also be posted prominently at the site and made readily available to all personnel at all times.

3.0 SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of appropriate media (e.g., groundwater, air, vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria.
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site and will be conducted for the first three years. The frequency thereafter will be determined by NYSDEC. Trends in contaminant levels in air, soil, and/or groundwater in the affected areas, will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 3.1 and outlined in detail in Sections 3.2 and 3.3 below.

Table 3.1: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Soil Cover	Quarterly	Soil	Inspection
Vapor Barrier	Quarterly	Air / Vapor	Inspection
Subslab Depressurization	Quarterly	Air / vapor	Inspection
Groundwater	Quarterly	Groundwater	VOCs

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.2 SOIL COVER SYSTEM MONITORING

At predetermined intervals the Site will be inspected for any existing and/or evidence of past disturbances of the soil cover and or concrete surface. Any naturally occurring disturbances that breech the cover will be repaired and certified by the Site Engineer.

3.3 MEDIA MONITORING PROGRAM

3.3.1 Groundwater Monitoring

Groundwater monitoring will be performed on quarterly basis for a period of three years to assess the performance of the remedy. After that term, the monitoring period may be adjusted as approved by the NYSDEC.

The network of monitoring wells has been installed to monitor both up-gradient and down-gradient groundwater conditions at the site. The network of on-site wells has been designed based on the following criteria:

- Groundwater is between 10-13 feet below grade;
- The plume is between 0.5 and 0.75 acres in size;
- Groundwater flow is in a northwest direction;
- The heart of the plume is somewhat east of center on the Site;
- The wells penetrate the saturated zone adequately to penetrate lens that may contain elevated concentrations of organics;

Deliverables for the groundwater monitoring program are specified below. Additional HRC injections will be considered if future groundwater monitoring activities show that contamination persists above the target cleanup objectives.

3.3.2 Groundwater Discharge Monitoring

Groundwater being pumped from beneath the new structure and discharged to the existing storm water control system have been tested and found to be well below state stormwater effluent limitations of 25 ppb. Sampling to date has not measured discharge concentrations above 1.8 ppb. To insure groundwater discharge does not violate state applicable stormwater effluent limitations, Jade proposes sampling of the primary receiving and secondary stormwater catch basins as part of the groundwater monitoring for this. Jade proposed sampling directly from both the primary and secondary basins via dedicated bailer or approved other and analysis in accordance with proposed sample mgmt plans. Samples will be analyzed for halogenated solvents via EPA analytical method 8010 or approved alternative analysis that meets or exceeds method detection limits required by the NYSDEC.

Should groundwater discharge monitoring indicate exceedences or potential exceedences of the stormwater effluent limitations (e.g >20 ppb PCE). Groundwater treatment will be immediately initiated in the form of air stripping and/or carbon filtration.

3.3.2.1 Sampling Protocol

All monitoring well sampling activities will be recorded in a field log, provided in the final report. Other observations (e.g., well integrity, etc.) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring report and also include:

- Well gauging;
- Well purging;
- Sampling methodology;
- Analytical methodology:
    - Lab certification;
    - Analytical methods;
    - Analytes.

3.3.2.2 Monitoring Well Repairs, Replacement and Decommissioning

If biofouling or silt accumulation occurs in monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC.

3.4 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls. During these inspections, an inspection

form will be completed and filed with the required report. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that site records are up to date.

3.5 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the site. Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
    - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
    - Sample holding times will be in accordance with the NYSDEC ASP requirements.
    - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:

- All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
- The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.

- Analytical Procedures;
- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.

3.6 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file on-site and/or the Site Engineers office. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Periodic Review Report, as specified in the Reporting Plan of this SMP.

All monitoring results will be reported to NYSDEC on a periodic basis in the Periodic Review Report. A letter report will also be prepared, subsequent to each sampling event. The report will include, at a minimum:

- Date of event;
- Personnel conducting sampling;
- Description of the activities performed;
- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, etc.);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;

- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (o be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether groundwater conditions have changed since the last reporting event.

  Data will be reported in hard copy or digital format as determined by NYSDEC.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

This Operation and Maintenance Plan describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the site. This Operation and Maintenance Plan:

- Includes the steps necessary to allow individuals unfamiliar with the site to operate and maintain the systems;
- Includes an operation and maintenance contingency plan; and,
- Will be updated periodically to reflect changes in site conditions or the manner in which the systems are operated and maintained.

Information on non-mechanical Engineering Controls (i.e. soil cover system) is provided in Section 3 - Engineering and Institutional Control Plan. A copy of this Operation and Maintenance Plan, along with the complete SMP, will be kept at the site. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of the SMP.

5.0 Inspections, reporting and certifications

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan. At a minimum, a site-wide inspection will be conducted annually. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspections and monitoring events will be recorded on the appropriate forms for their respective system which are contained in the Appendices. Additionally, a general site-wide inspection form will be completed during the site-wide inspection. These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format in the Periodic Review Report.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items,
- The site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and FER.

5.2 CERTIFICATION OF ENGINEERING / INSTITUTIONAL CONTROLS

After the last inspection of the reporting period, a Professional Engineer licensed to practice in New York State will prepare the following certification:

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.
- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as Owner’s Designated Site Representative: I

have been authorized and designated by all site owners to sign this certification for the site.

- The signed certification will be included in the Periodic Review Report described below. For each institutional control identified for the site, I certify that all of the following statements are true:

- The institutional control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the site is compliant with the environmental easement.
- The information presented in this report is accurate and complete.
- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as Owner's Designated Site Representative I have been authorized and designated by all site owners to sign this certification.
- No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and
- Every five years the following certification will be added:
- The assumptions made in the qualitative exposure assessment remain valid.
- The signed certification will be included in the Periodic Review Report below.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to the Department every year, beginning eighteen months after the Certificate of Completion is issued. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix B (Metes and Bounds). The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Media sampling results will also incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the site-specific RAWP or Decision Document;
    - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;

- Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
- Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- The overall performance and effectiveness of the remedy.

5.4 CORRECTIVE MEASURES PLAN

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by the NYSDEC.

APPENDIX D

GROUNDWATER ANALYSIS REPORT

Technical Report

prepared for:

Jade Environmental, Inc.
59 Circle Drive
Hopewell Junction NY, 12533
Attention: Mr. Dave Pelletier

Report Date: 07/31/2013
Client Project ID: Ossining 6/13
York Project (SDG) No.: 13G0903

Report Date: 07/31/2013
Client Project ID: Ossining 6/13
York Project (SDG) No.: 13G0903

Jade Environmental, Inc.
59 Circle Drive
Hopewell Junction NY, 12533
Attention: Mr. Dave Pelletier

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 24, 2013 and listed below. The project was identified as your project: **Ossining 6/13**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13G0903-01	MW-1	Water	07/24/2013	07/24/2013
13G0903-02	MW-2	Water	07/24/2013	07/24/2013
13G0903-03	MW-3	Water	07/24/2013	07/24/2013
13G0903-04	MW-4	Water	07/24/2013	07/24/2013
13G0903-05	MW-5	Water	07/24/2013	07/24/2013
13G0903-06	DRAIN	Water	07/24/2013	07/24/2013

General Notes for York Project (SDG) No.: 13G0903

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 07/31/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 13G0903-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS

Sample Information

Client Sample ID: **MW-1** **York Sample ID:** **13G0903-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
127-18-4	**Tetrachloroethylene**	**1.5**	J	ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 03:02	SS

Sample Information

Client Sample ID: **MW-2** **York Sample ID:** **13G0903-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.6	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.9	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	6.4	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	2.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.6	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	1.3	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	4.9	50	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 13G0903-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/L	3.7	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	4.6	50	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	4.9	50	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	2.2	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	1.8	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	1.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.4	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	2.8	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	2.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
95-49-8	2-Chlorotoluene	ND		ug/L	2.2	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
106-43-4	4-Chlorotoluene	ND		ug/L	1.5	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
108-86-1	Bromobenzene	ND		ug/L	5.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
74-97-5	Bromochloromethane	ND		ug/L	2.7	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-27-4	Bromodichloromethane	ND		ug/L	2.0	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-25-2	Bromoform	ND		ug/L	2.9	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
74-83-9	Bromomethane	ND		ug/L	9.8	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
56-23-5	Carbon tetrachloride	ND		ug/L	2.8	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
108-90-7	Chlorobenzene	ND		ug/L	1.9	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-00-3	Chloroethane	ND		ug/L	14	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
67-66-3	Chloroform	ND		ug/L	2.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
74-87-3	Chloromethane	ND		ug/L	2.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
156-59-2	**cis-1,2-Dichloroethylene**	**350**		ug/L	2.2	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
124-48-1	Dibromochloromethane	ND		ug/L	2.0	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
74-95-3	Dibromomethane	ND		ug/L	2.9	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.8	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	3.4	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-09-2	Methylene chloride	ND		ug/L	12	50	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
91-20-3	Naphthalene	ND		ug/L	6.0	50	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
103-65-1	n-Propylbenzene	ND		ug/L	2.7	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
100-42-5	Styrene	ND		ug/L	1.1	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 13G0903-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	**Tetrachloroethylene**	**11**	J	ug/L	2.0	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
108-88-3	Toluene	ND		ug/L	0.84	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.6	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	3.4	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
79-01-6	Trichloroethylene	ND		ug/L	0.82	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	2.7	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK
75-01-4	Vinyl Chloride	ND		ug/L	3.4	25	5	EPA SW846-8260B	07/30/2013 09:06	07/30/2013 11:10	BK

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 13G0903-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 13G0903-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
156-59-2	**cis-1,2-Dichloroethylene**	**1.9**	J	ug/L	0.43	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 11:50	BK

Sample Information

Client Sample ID: MW-4 **York Sample ID:** 13G0903-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
156-59-2	**cis-1,2-Dichloroethylene**	**0.99**	J	ug/L	0.43	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK

Sample Information

Client Sample ID: **MW-4** **York Sample ID:** **13G0903-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK
75-01-4	**Vinyl Chloride**	**3.3**	J	ug/L	0.68	5.0	1	EPA SW846-8260B	07/30/2013 09:32	07/30/2013 12:30	BK

Sample Information

Client Sample ID: **MW-5** **York Sample ID:** **13G0903-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS

Sample Information

Client Sample ID: **MW-5** **York Sample ID:** **13G0903-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
127-18-4	**Tetrachloroethylene**	**1.4**	J	ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS

Sample Information

Client Sample ID: MW-5 **York Sample ID:** 13G0903-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:23	SS

Sample Information

Client Sample ID: DRAIN **York Sample ID:** 13G0903-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS

Sample Information

Client Sample ID: DRAIN

York Sample ID: 13G0903-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0903	Ossining 6/13	Water	July 24, 2013 2:00 pm	07/24/2013

Volatile Organics, 8021 Halogenated List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	07/29/2013 10:32	07/30/2013 05:59	SS

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13G0903-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13G0903-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13G0903-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13G0903-04	MW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13G0903-05	MW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13G0903-06	DRAIN	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

J — Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

B — Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND — Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL — REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL — METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR — Not reported

RPD — Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13G0903

YOUR Information

Company: Jade Env.
Address: 59 Circle Dr. Hopewell Jct. NY 12533
Phone No. 914 882 6674
Contact Person: Dave Pellegrino
E-Mail Address:

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

Ossining 6/13

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type

- Summary Report ✓
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison

Excel Spreadsheet

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Dave Pellegrino
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1	7/24/13 2pm	GW	CVOC + EPA 8010	2-40 ml/s
MW-2				
MW-3				
MW-4				
MW-5				
~~MW-6~~ DRAIN				

Comments

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C X Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	7/24/13	Chris C	7-24-13 9:15
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		J. Lee	7/24/13 1620

Temperature on Receipt 4.6 °C

APPENDIX E

SOIL GAS AND INDOOR AIR ANALYSIS REPORTS

Technical Report

prepared for:

Jade Environmental, Inc.
59 Circle Drive
Hopewell Junction NY, 12533
Attention: Mr. Dave Pelletier

Report Date: 04/09/2014
Client Project ID: OSSINIM
York Project (SDG) No.: 14D0207

Report Date: 04/09/2014
Client Project ID: OSSINIM
York Project (SDG) No.: 14D0207

Jade Environmental, Inc.
59 Circle Drive
Hopewell Junction NY, 12533
Attention: Mr. Dave Pelletier

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 04, 2014 and listed below. The project was identified as your project: **OSSINIM**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
14D0207-01	Cannister ID/451 Storage Room	Indoor Ambient Air	04/02/2014	04/04/2014
14D0207-02	Cannister ID/455 Receiving	Indoor Ambient Air	04/02/2014	04/04/2014
14D0207-03	Upper Point A Outside	Soil Vapor	04/02/2014	04/04/2014

General Notes for York Project (SDG) No.: 14D0207

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 04/09/2014

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Cannister ID/451 Storage Room** **York Sample ID:** **14D0207-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Indoor Ambient Air	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.31	0.31	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
108-05-4	Vinyl acetate	ND		ug/m³	0.43	0.43	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.55	0.55	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.48	0.48	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
108-88-3	**Toluene**	**16**		ug/m³	0.46	0.46	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
109-99-9	*** Tetrahydrofuran**	**1.2**		ug/m³	0.36	0.36	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
127-18-4	**Tetrachloroethylene**	**3.7**		ug/m³	0.83	0.83	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
100-42-5	**Styrene**	**1.2**		ug/m³	0.52	0.52	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
115-07-1	* Propylene	ND		ug/m³	0.21	0.21	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
622-96-8	*** p-Ethyltoluene**	**1.4**		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
179601-23-1	**p- & m- Xylenes**	**4.0**		ug/m³	1.1	1.1	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
95-47-6	**o-Xylene**	**2.0**		ug/m³	0.53	0.53	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
110-54-3	**n-Hexane**	**2.0**		ug/m³	0.43	0.43	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
142-82-5	**n-Heptane**	**1.1**		ug/m³	0.50	0.50	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-09-2	**Methylene chloride**	**5.8**		ug/m³	0.85	0.85	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.44	0.44	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
108-10-1	**4-Methyl-2-pentanone**	**0.70**		ug/m³	0.50	0.50	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
67-63-0	**Isopropanol**	**25**		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.3	1.3	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
100-41-4	**Ethyl Benzene**	**1.4**		ug/m³	0.53	0.53	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
141-78-6	*** Ethyl acetate**	**9.0**		ug/m³	0.88	0.88	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
110-82-7	**Cyclohexane**	**1.4**		ug/m³	0.42	0.42	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.55	0.55	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.48	0.48	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
74-87-3	**Chloromethane**	**2.1**		ug/m³	0.25	0.25	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
67-66-3	Chloroform	ND		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-00-3	Chloroethane	ND		ug/m³	0.32	0.32	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
56-23-5	**Carbon tetrachloride**	**1.3**		ug/m³	0.19	0.19	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-15-0	Carbon disulfide	ND		ug/m³	0.38	0.38	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
74-83-9	Bromomethane	ND		ug/m³	0.47	0.47	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-25-2	Bromoform	ND		ug/m³	1.3	1.3	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-27-4	Bromodichloromethane	ND		ug/m³	0.76	0.76	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
100-44-7	Benzyl chloride	ND		ug/m³	0.63	0.63	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
71-43-2	**Benzene**	**1.7**		ug/m³	0.39	0.39	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
67-64-1	**Acetone**	**50**	B	ug/m³	0.29	0.29	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
591-78-6	* 2-Hexanone	ND		ug/m³	1.0	1.0	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB

Sample Information

Client Sample ID: Cannister ID/451 Storage Room **York Sample ID:** 14D0207-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Indoor Ambient Air	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	**2-Butanone**	**6.3**		ug/m³	0.36	0.36	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
123-91-1	1,4-Dioxane	ND		ug/m³	0.44	0.44	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
106-99-0	**1,3-Butadiene**	**1.6**		ug/m³	0.53	0.53	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.85	0.85	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.56	0.56	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
107-06-2	**1,2-Dichloroethane**	**1.9**		ug/m³	0.49	0.49	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.73	0.73	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
95-63-6	**1,2,4-Trimethylbenzene**	**1.7**		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.91	0.91	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.48	0.48	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.49	0.49	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.2**		ug/m³	0.69	0.69	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.67	0.67	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**0.94**		ug/m³	0.94	0.94	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.84	0.84	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.67	0.67	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.60	0.60	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.94	0.94	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
124-48-1	Dibromochloromethane	ND		ug/m³	0.98	0.98	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
80-62-6	Methyl Methacrylate	ND		ug/m³	0.50	0.50	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB
108-90-7	Chlorobenzene	ND		ug/m³	0.56	0.56	1.2	EPA TO-15	04/07/2014 16:08	04/07/2014 19:04	RQB

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*89.0 %*	*72-118*

Sample Information

Client Sample ID: Cannister ID/455 Receiving **York Sample ID:** 14D0207-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Indoor Ambient Air	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Cannister ID/455 Receiving** **York Sample ID:** **14D0207-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Indoor Ambient Air	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.36	0.36	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
108-05-4	Vinyl acetate	ND		ug/m³	0.50	0.50	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
79-01-6	**Trichloroethylene**	**1.1**		ug/m³	0.19	0.19	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.65	0.65	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.56	0.56	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
108-88-3	**Toluene**	**11**		ug/m³	0.54	0.54	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.42	0.42	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
127-18-4	**Tetrachloroethylene**	**2.1**		ug/m³	0.97	0.97	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
100-42-5	**Styrene**	**0.73**		ug/m³	0.61	0.61	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
115-07-1	* Propylene	ND		ug/m³	0.25	0.25	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
622-96-8	*** p-Ethyltoluene**	**0.77**		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
179601-23-1	**p- & m- Xylenes**	**2.0**		ug/m³	1.2	1.2	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
95-47-6	**o-Xylene**	**0.99**		ug/m³	0.62	0.62	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
110-54-3	**n-Hexane**	**1.2**		ug/m³	0.50	0.50	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
142-82-5	**n-Heptane**	**0.99**		ug/m³	0.58	0.58	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-09-2	**Methylene chloride**	**3.0**		ug/m³	0.99	0.99	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.51	0.51	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
108-10-1	**4-Methyl-2-pentanone**	**0.58**		ug/m³	0.58	0.58	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
67-63-0	**Isopropanol**	**57**		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.5	1.5	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
100-41-4	**Ethyl Benzene**	**1.1**		ug/m³	0.62	0.62	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
141-78-6	*** Ethyl acetate**	**27**		ug/m³	1.0	1.0	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
110-82-7	**Cyclohexane**	**0.69**		ug/m³	0.49	0.49	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.65	0.65	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.56	0.56	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
74-87-3	**Chloromethane**	**1.4**		ug/m³	0.29	0.29	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
67-66-3	Chloroform	ND		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-00-3	Chloroethane	ND		ug/m³	0.38	0.38	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
56-23-5	**Carbon tetrachloride**	**0.90**		ug/m³	0.22	0.22	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-15-0	Carbon disulfide	ND		ug/m³	0.44	0.44	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
74-83-9	Bromomethane	ND		ug/m³	0.55	0.55	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-25-2	Bromoform	ND		ug/m³	1.5	1.5	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-27-4	Bromodichloromethane	ND		ug/m³	0.88	0.88	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
100-44-7	Benzyl chloride	ND		ug/m³	0.74	0.74	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
71-43-2	**Benzene**	**1.0**		ug/m³	0.45	0.45	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
67-64-1	**Acetone**	**43**	B	ug/m³	0.34	0.34	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.2	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
78-93-3	**2-Butanone**	**3.7**		ug/m³	0.42	0.42	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB

Sample Information

Client Sample ID: **Cannister ID/455 Receiving** **York Sample ID:** **14D0207-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Indoor Ambient Air	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/m³	0.51	0.51	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.86	0.86	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.86	0.86	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
106-99-0	**1,3-Butadiene**	**0.86**		ug/m³	0.62	0.62	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.0	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.66	0.66	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
107-06-2	**1,2-Dichloroethane**	**1.7**		ug/m³	0.58	0.58	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.86	0.86	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
95-63-6	**1,2,4-Trimethylbenzene**	**0.98**		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.1	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.56	0.56	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.58	0.58	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.80	0.80	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.78	0.78	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.1	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.98	0.98	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.78	0.78	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
75-71-8	**Dichlorodifluoromethane**	**1.4**		ug/m³	0.70	0.70	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.1	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
124-48-1	Dibromochloromethane	ND		ug/m³	1.1	1.1	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
80-62-6	Methyl Methacrylate	ND		ug/m³	0.58	0.58	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB
108-90-7	Chlorobenzene	ND		ug/m³	0.66	0.66	1.4	EPA TO-15	04/07/2014 16:08	04/07/2014 20:08	RQB

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*89.5 %*	*72-118*

Sample Information

Client Sample ID: **Upper Point A Outside** **York Sample ID:** **14D0207-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Soil Vapor	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Upper Point A Outside** **York Sample ID:** **14D0207-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Soil Vapor	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	7.5	7.5	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
108-05-4	Vinyl acetate	ND		ug/m³	10	10	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
79-01-6	Trichloroethylene	ND		ug/m³	3.9	3.9	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
108-88-3	**Toluene**	**2300**		ug/m³	11	11	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
109-99-9	* Tetrahydrofuran	ND		ug/m³	8.6	8.6	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
127-18-4	**Tetrachloroethylene**	**93**		ug/m³	20	20	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
100-42-5	Styrene	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
115-07-1	*** Propylene**	**34**		ug/m³	5.0	5.0	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
622-96-8	*** p-Ethyltoluene**	**350**		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
179601-23-1	**p- & m- Xylenes**	**890**		ug/m³	25	25	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
95-47-6	**o-Xylene**	**260**		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
110-54-3	**n-Hexane**	**300**		ug/m³	10	10	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
142-82-5	**n-Heptane**	**260**		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-09-2	Methylene chloride	ND		ug/m³	20	20	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	11	11	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
67-63-0	Isopropanol	ND		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
87-68-3	Hexachlorobutadiene	ND		ug/m³	31	31	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
100-41-4	**Ethyl Benzene**	**310**		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
141-78-6	* Ethyl acetate	ND		ug/m³	21	21	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
110-82-7	**Cyclohexane**	**59**		ug/m³	10	10	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
74-87-3	Chloromethane	ND		ug/m³	6.0	6.0	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
67-66-3	**Chloroform**	**17**		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-00-3	Chloroethane	ND		ug/m³	7.7	7.7	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
56-23-5	Carbon tetrachloride	ND		ug/m³	4.6	4.6	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-15-0	**Carbon disulfide**	**10**		ug/m³	9.1	9.1	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
74-83-9	Bromomethane	ND		ug/m³	11	11	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-25-2	Bromoform	ND		ug/m³	30	30	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-27-4	Bromodichloromethane	ND		ug/m³	18	18	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
100-44-7	Benzyl chloride	ND		ug/m³	15	15	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
71-43-2	**Benzene**	**130**		ug/m³	9.4	9.4	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
67-64-1	**Acetone**	**1200**	B	ug/m³	7.0	7.0	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
591-78-6	* 2-Hexanone	ND		ug/m³	24	24	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
78-93-3	**2-Butanone**	**32**		ug/m³	8.6	8.6	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB

Sample Information

Client Sample ID: **Upper Point A Outside** **York Sample ID:** **14D0207-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14D0207	OSSINIM	Soil Vapor	April 2, 2014 3:00 pm	04/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/m³	11	11	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	18	18	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	18	18	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
106-99-0	1,3-Butadiene	ND		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
108-67-8	**1,3,5-Trimethylbenzene**	**76**		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	20	20	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
78-87-5	1,2-Dichloropropane	ND		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
107-06-2	1,2-Dichloroethane	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	18	18	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
95-63-6	**1,2,4-Trimethylbenzene**	**360**		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	22	22	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-35-4	1,1-Dichloroethylene	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-34-3	1,1-Dichloroethane	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	16	16	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	16	16	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	22	22	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	20	20	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	16	16	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
75-71-8	Dichlorodifluoromethane	ND		ug/m³	14	14	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
106-93-4	1,2-Dibromoethane	ND		ug/m³	23	23	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
124-48-1	Dibromochloromethane	ND		ug/m³	24	24	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
80-62-6	Methyl Methacrylate	ND		ug/m³	12	12	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB
108-90-7	Chlorobenzene	ND		ug/m³	13	13	28.8	EPA TO-15	04/07/2014 16:08	04/07/2014 22:36	RQB

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*88.9 %*	*72-118*

Analytical Batch Summary

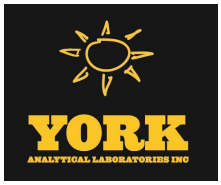
Batch ID: BD40340 **Preparation Method:** EPA TO15 PREP **Prepared By:** RQB

YORK Sample ID	Client Sample ID	Preparation Date
14D0207-01	Cannister ID/451 Storage Room	04/07/14
14D0207-02	Cannister ID/455 Receiving	04/07/14
14D0207-03	Upper Point A Outside	04/07/14
BD40340-BLK1	Blank	04/07/14
BD40340-BS1	LCS	04/07/14

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD40340 - EPA TO15 PREP											
Blank (BD40340-BLK1)											Prepared & Analyzed: 04/07/2014
Vinyl Chloride	ND	0.26	ug/m³								
Vinyl acetate	ND	0.36	"								
Trichloroethylene	ND	0.14	"								
trans-1,3-Dichloropropylene	ND	0.46	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
Toluene	ND	0.38	"								
Tetrahydrofuran	ND	0.30	"								
Tetrachloroethylene	ND	0.69	"								
Styrene	ND	0.43	"								
Propylene	ND	0.18	"								
p-Ethyltoluene	ND	0.50	"								
p- & m- Xylenes	ND	0.88	"								
o-Xylene	ND	0.44	"								
n-Hexane	ND	0.36	"								
n-Heptane	ND	0.42	"								
Methylene chloride	ND	0.71	"								
Methyl tert-butyl ether (MTBE)	ND	0.37	"								
4-Methyl-2-pentanone	ND	0.42	"								
Isopropanol	ND	0.50	"								
Hexachlorobutadiene	ND	1.1	"								
Ethyl Benzene	ND	0.44	"								
Ethyl acetate	ND	0.73	"								
Cyclohexane	ND	0.35	"								
cis-1,3-Dichloropropylene	ND	0.46	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
Chloromethane	ND	0.21	"								
Chloroform	ND	0.50	"								
Chloroethane	ND	0.27	"								
Carbon tetrachloride	ND	0.16	"								
Carbon disulfide	ND	0.32	"								
Bromomethane	ND	0.39	"								
Bromoform	ND	1.1	"								
Bromodichloromethane	ND	0.63	"								
Benzyl chloride	ND	0.53	"								
Benzene	ND	0.32	"								
Acetone	0.39	0.24	"								
2-Hexanone	ND	0.83	"								
2-Butanone	ND	0.30	"								
1,4-Dioxane	ND	0.37	"								
1,4-Dichlorobenzene	ND	0.61	"								
1,3-Dichlorobenzene	ND	0.61	"								
1,3-Butadiene	ND	0.44	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorotetrafluoroethane	ND	0.71	"								
1,2-Dichloropropane	ND	0.47	"								
1,2-Dichloroethane	ND	0.41	"								
1,2-Dichlorobenzene	ND	0.61	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.75	"								
1,1-Dichloroethylene	ND	0.40	"								
1,1-Dichloroethane	ND	0.41	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD40340 - EPA TO15 PREP											
Blank (BD40340-BLK1)								Prepared & Analyzed: 04/07/2014			
Trichlorofluoromethane (Freon 11)	ND	0.57	ug/m³								
1,1,2-Trichloroethane	ND	0.55	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.78	"								
1,1,2,2-Tetrachloroethane	ND	0.70	"								
1,1,1-Trichloroethane	ND	0.55	"								
Dichlorodifluoromethane	ND	0.50	"								
1,2-Dibromoethane	ND	0.78	"								
Dibromochloromethane	ND	0.82	"								
Methyl Methacrylate	ND	0.42	"								
Chlorobenzene	ND	0.47	"								
Surrogate: p-Bromofluorobenzene	*9.07*		*ppbv*	*10.6*		*85.6*	*72-118*				
LCS (BD40340-BS1)								Prepared & Analyzed: 04/07/2014			
Vinyl Chloride	8.67		ppbv	10.2		85.0	61-115				
Vinyl acetate	8.96		"	10.8		83.0	61-141				
Trichloroethylene	8.76		"	9.90		88.5	72-125				
trans-1,3-Dichloropropylene	10.6		"	10.9		97.3	78-134				
trans-1,2-Dichloroethylene	8.52		"	9.70		87.8	69-116				
Toluene	9.15		"	10.4		88.0	71-128				
Tetrahydrofuran	8.31		"	9.20		90.3	79-132				
Tetrachloroethylene	9.18		"	10.0		91.8	72-124				
Styrene	9.97		"	10.3		96.8	80-137				
Propylene	8.92		"	10.4		85.8	67-106				
p-Ethyltoluene	9.50		"	10.1		94.1	73-143				
p- & m- Xylenes	17.6		"	20.2		87.3	68-129				
o-Xylene	9.65		"	10.5		91.9	69-124				
n-Hexane	9.03		"	10.0		90.3	69-119				
n-Heptane	9.09		"	10.3		88.3	69-115				
Methylene chloride	7.83		"	9.90		79.1	66-95				
Methyl tert-butyl ether (MTBE)	8.59		"	9.80		87.7	72-140				
4-Methyl-2-pentanone	7.73		"	9.20		84.0	49-174				
Isopropanol	9.16		"	12.0		76.3	48-166				
Hexachlorobutadiene	8.71		"	9.90		88.0	69-152				
Ethyl Benzene	9.43		"	10.3		91.6	68-129				
Ethyl acetate	7.15		"	8.50		84.1	71-135				
Cyclohexane	9.06		"	10.1		89.7	70-118				
cis-1,3-Dichloropropylene	9.78		"	10.5		93.1	74-132				
cis-1,2-Dichloroethylene	8.66		"	10.3		84.1	67-121				
Chloromethane	8.56		"	10.1		84.8	60-105				
Chloroform	8.94		"	10.1		88.5	71-118				
Chloroethane	8.66		"	9.90		87.5	63-108				
Carbon tetrachloride	9.37		"	10.2		91.9	67-119				
Carbon disulfide	8.99		"	10.5		85.6	59-119				
Bromomethane	8.65		"	9.90		87.4	60-108				
Bromoform	10.3		"	10.1		102	77-127				
Bromodichloromethane	9.83		"	9.90		99.3	68-128				
Benzyl chloride	9.98		"	10.2		97.8	57-170				
Benzene	8.72		"	10.2		85.5	64-121				
Acetone	7.64		"	9.80		78.0	71-117				
2-Hexanone	7.88		"	9.30		84.7	10-242				
2-Butanone	8.45		"	9.40		89.9	82-143				
1,4-Dioxane	8.37		"	9.90		84.5	55-198				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD40340 - EPA TO15 PREP											
LCS (BD40340-BS1)								Prepared & Analyzed: 04/07/2014			
1,4-Dichlorobenzene	9.18		ppbv	10.2		90.0	73-128				
1,3-Dichlorobenzene	9.21		"	10.2		90.3	73-130				
1,3-Butadiene	8.79		"	10.1		87.0	65-112				
1,3,5-Trimethylbenzene	9.19		"	10.2		90.1	65-139				
1,2-Dichlorotetrafluoroethane	8.51		"	10.2		83.4	52-117				
1,2-Dichloropropane	9.17		"	10.3		89.0	66-122				
1,2-Dichloroethane	9.01		"	10.1		89.2	72-113				
1,2-Dichlorobenzene	9.15		"	10.1		90.6	69-130				
1,2,4-Trimethylbenzene	9.35		"	10.2		91.7	67-144				
1,2,4-Trichlorobenzene	7.70		"	9.60		80.2	67-168				
1,1-Dichloroethylene	8.68		"	10.0		86.8	72-110				
1,1-Dichloroethane	8.90		"	10.0		89.0	70-114				
Trichlorofluoromethane (Freon 11)	9.35		"	10.5		89.0	67-105				
1,1,2-Trichloroethane	9.33		"	10.3		90.6	73-124				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.51		"	9.70		87.7	68-118				
1,1,2,2-Tetrachloroethane	9.20		"	10.5		87.6	68-126				
1,1,1-Trichloroethane	8.96		"	9.90		90.5	71-119				
Dichlorodifluoromethane	7.23		"	10.0		72.3	70-130				
1,2-Dibromoethane	9.66		"	10.3		93.8	79-129				
Dibromochloromethane	10.9		"	10.3		106	78-123				
Methyl Methacrylate	8.52		"	9.50		89.7	51-138				
Chlorobenzene	9.31		"	10.4		89.5	71-117				
Surrogate: p-Bromofluorobenzene	*9.70*		*"*	*10.6*		*91.5*	*72-118*				

Notes and Definitions

B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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*	Analyte is not certified or the state (NY) does not offer certification for the Analyte.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 14D0207

YOUR Information	**Report To:**	**Invoice To:**	**YOUR Project ID**	**Turn-Around Time**	**Report Type/Deliverables**
Company: JADE ENV.	Company: SAME	Company: SAME	OSSINING	RUSH - Same Day ☐	Summary Report ____
Address:	Address:	Address:	**Purchase Order No.**	RUSH - Next Day ☐	Summary w/ QA Summary X
Phone No.	Phone No.	Phone No.		RUSH - Two Day ☐	CT RCP Package ____
Contact Person:	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package ____
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT___ NY___ NJ___	RUSH - Four Day ☐	NY ASP B/CLP Pkg ____
				Standard(5-7 Days) ☒	NJDEP Reduced ____
					Electronic Deliverables:
					EDD (Specify Type) ____
					Standard Excel ____
					Regulatory Comparison Excel ____

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

DAVE Pellitt

Name (printed)

Air Matrix Codes

AI -	INDOOR Ambient Air
AO-	OUTDOOR Amb. Air
AE-	Vapor Extraction Well/ Process Gas/Effluent
AS-	SOIL Vapor/Sub-Slab

TO15 Volatiles and Other Gas Analyses

EPA TO-15 List	EPA TO-14A List
NYSDEC VI list	Tentatively Identified Compounds
NYSDEC STARS List	Air VPH
Project Specific List by TO-15	Helium
NJDEP Target List	Methane
CTDEP RCP Target List	OTHER____

Detection Limits Required

≤ 1 ug/m³ ____

NYSDEC VI Limits____ (VI = vapor intrusion)

NJDEP low level ____

Routine Survey ____

Other____

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
Canister Id 451 Storage Room	4/2	Inside	-30	-16	TO15	6 Liter Summa canister ___ Tedlar Bag ___
Can Id 455 Receiving	↓	↓	-25	-10	↓	6 Liter Summa canister ___ Tedlar Bag ___
Vapor Point A Outside	↓	Soil gas	-30	-10	↓	6 Liter Summa canister ___ Tedlar Bag ___
						6 Liter Summa canister ___ Tedlar Bag ___
						6 Liter Summa canister ___ Tedlar Bag ___
						6 Liter Summa canister ___ Tedlar Bag ___
						6 Liter Summa canister ___ Tedlar Bag ___
						6 Liter Summa canister ___ Tedlar Bag ___

Comments

Cat B Deliverable

Samples Relinquished By ____ Date/Time ____

Samples Relinquished By ____ Date/Time ____

Chris C 4-4-14 10:50
Samples Received By Date/Time

E Schenck 4/4/14 1500
Samples Received in LAB by Date/Time

PHOENIX
Environmental Laboratories, Inc.

Monday, June 09, 2014

Attn: Mr. David Pelletier
Jade Environmental, Inc.
46 S Cross Road
Lagrange, New York 12540

Project ID: 78 CROTON AVE
Sample ID#s: BG52182

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 09, 2014

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
46 S Cross Road
Lagrange, New York 12540

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		05/30/14	6:45
Location Code:	JADEENV	Received by:	LK	06/04/14	16:47
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG52182
Phoenix ID: BG52182

Project ID: 78 CROTON AVE
Client ID:

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	06/05/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	06/05/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	06/05/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	06/05/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	06/05/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	06/05/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	06/05/14	KCA	TO15	
1,2,4-Trimethylbenzene	38.1	*0.204*	187	*1.00*	06/05/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	06/05/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	06/05/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	06/05/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	06/05/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	06/05/14	KCA	TO15	
1,3,5-Trimethylbenzene	11.7	*0.204*	57.5	*1.00*	06/05/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	06/05/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	06/05/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	06/05/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	06/05/14	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	06/05/14	KCA	TO15	1
4-Ethyltoluene	7.16	*0.204*	35.2	*1.00*	06/05/14	KCA	TO15	1
4-Isopropyltoluene	1.73	*0.182*	9.49	*1.00*	06/05/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	2.59	*0.244*	10.6	*1.00*	06/05/14	KCA	TO15	
Acetone	111	*0.421*	264	*1.00*	06/05/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	06/05/14	KCA	TO15	
Benzene	14.1	*0.313*	45.0	*1.00*	06/05/14	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	06/05/14	KCA	TO15	

Project ID: 78 CROTON AVE
Client ID:

Phoenix I.D.: BG52182

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND		*0.149*	ND	*1.00*	06/05/14	KCA	TO15	
Bromoform	ND		*0.097*	ND	*1.00*	06/05/14	KCA	TO15	
Bromomethane	ND		*0.258*	ND	*1.00*	06/05/14	KCA	TO15	
Carbon Disulfide	1.10		*0.321*	3.42	*1.00*	06/05/14	KCA	TO15	
Carbon Tetrachloride	0.080		*0.040*	0.503	*0.25*	06/05/14	KCA	TO15	
Chlorobenzene	ND		*0.217*	ND	*1.00*	06/05/14	KCA	TO15	
Chloroethane	ND		*0.379*	ND	*1.00*	06/05/14	KCA	TO15	
Chloroform	3.50		*0.205*	17.1	*1.00*	06/05/14	KCA	TO15	
Chloromethane	ND		*0.484*	ND	*1.00*	06/05/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	06/05/14	KCA	TO15	
cis-1,3-Dichloropropene	ND		*0.220*	ND	*1.00*	06/05/14	KCA	TO15	
Cyclohexane	11.7		*0.291*	40.2	*1.00*	06/05/14	KCA	TO15	
Dibromochloromethane	ND		*0.117*	ND	*1.00*	06/05/14	KCA	TO15	
Dichlorodifluoromethane	0.480		*0.202*	2.37	*1.00*	06/05/14	KCA	TO15	
Ethanol	11300	E	*0.531*	21300	*1.00*	06/05/14	KCA	TO15	1
Ethyl acetate	13.5		*0.278*	48.6	*1.00*	06/05/14	KCA	TO15	1
Ethylbenzene	41.4		*0.230*	180	*1.00*	06/05/14	KCA	TO15	
Heptane	24.3		*0.244*	99.5	*1.00*	06/05/14	KCA	TO15	
Hexachlorobutadiene	ND		*0.094*	ND	*1.00*	06/05/14	KCA	TO15	
Hexane	19.6		*0.284*	69.0	*1.00*	06/05/14	KCA	TO15	
Isopropylalcohol	ND		*0.407*	ND	*1.00*	06/05/14	KCA	TO15	
Isopropylbenzene	3.29		*0.204*	16.2	*1.00*	06/05/14	KCA	TO15	
m,p-Xylene	146		*0.230*	634	*1.00*	06/05/14	KCA	TO15	
Methyl Ethyl Ketone	5.62		*0.339*	16.6	*1.00*	06/05/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	ND	*1.00*	06/05/14	KCA	TO15	
Methylene Chloride	0.370		*0.288*	1.28	*1.00*	06/05/14	KCA	TO15	
n-Butylbenzene	3.41		*0.182*	18.7	*1.00*	06/05/14	KCA	TO15	1
o-Xylene	51.1		*0.230*	222	*1.00*	06/05/14	KCA	TO15	
Propylene	27.2		*0.581*	46.8	*1.00*	06/05/14	KCA	TO15	1
sec-Butylbenzene	1.48		*0.182*	8.12	*1.00*	06/05/14	KCA	TO15	1
Styrene	0.730		*0.235*	3.11	*1.00*	06/05/14	KCA	TO15	
Tetrachloroethene	6.74		*0.037*	45.7	*0.25*	06/05/14	KCA	TO15	
Tetrahydrofuran	ND		*0.339*	ND	*1.00*	06/05/14	KCA	TO15	1
Toluene	428		*0.266*	1610	*1.00*	06/05/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	06/05/14	KCA	TO15	
trans-1,3-Dichloropropene	ND		*0.220*	ND	*1.00*	06/05/14	KCA	TO15	
Trichloroethene	0.110		*0.047*	0.591	*0.25*	06/05/14	KCA	TO15	
Trichlorofluoromethane	0.600		*0.178*	3.37	*1.00*	06/05/14	KCA	TO15	
Trichlorotrifluoroethane	ND		*0.130*	ND	*1.00*	06/05/14	KCA	TO15	
Vinyl Chloride	ND		*0.098*	ND	*0.25*	06/05/14	KCA	TO15	
QA/QC Surrogates									
% Bromofluorobenzene	107		*%*	107	*%*	06/05/14	KCA	TO15	

Project ID: 78 CROTON AVE
Client ID:

Phoenix I.D.: BG52182

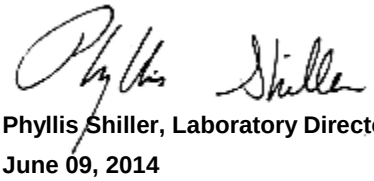
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 09, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

June 09, 2014

QA/QC Data

SDG I.D.: GBG52182

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 276339, QC Sample No: BG52665 (BG52182)										
Volatiles										
1,1,1,2-Tetrachloroethane	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	93	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	122	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	101	28.4	29.3	5.79	5.97	3.1	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	97	11.0	11.1	2.24	2.26	0.9	70 - 130	20
1,3-Butadiene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	101	7.42	8.20	1.51	1.67	10.1	70 - 130	20
4-Isopropyltoluene	ND	ND	100	1.48	1.48	0.270	0.270	0.0	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Acetone	ND	ND	94	92.8	94.2	39.1	39.7	1.5	70 - 130	20
Acrylonitrile	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	99	1.21	1.24	0.380	0.390	2.6	70 - 130	20
Benzyl chloride	ND	ND	>140	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	120	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	115	0.503	0.566	0.080	0.090	11.8	70 - 130	20
Chlorobenzene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	95	2.15	2.15	0.440	0.440	0.0	70 - 130	20
Chloromethane	ND	ND	90	1.18	1.32	0.570	0.640	11.6	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	ND	120	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	99	2.57	2.57	0.520	0.520	0.0	70 - 130	20
Ethanol	ND	ND	91	57.6	61.4	30.6	32.6	6.3	70 - 130	20

QA/QC Data

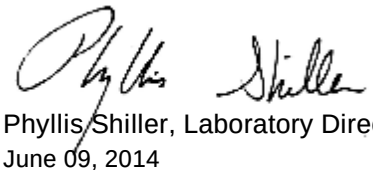
SDG I.D.: GBG52182

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	118	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	101	2.08	2.08	0.480	0.480	0.0	70 - 130	20
Heptane	ND	ND	93	1.72	1.68	0.420	0.410	2.4	70 - 130	20
Hexachlorobutadiene	ND	ND	85	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	97	2.89	3.10	0.820	0.880	7.1	70 - 130	20
Isopropylalcohol	ND	ND	98	7.59	7.76	3.09	3.16	2.2	70 - 130	20
Isopropylbenzene	ND	ND	101	1.72	1.77	0.350	0.360	2.8	70 - 130	20
m,p-Xylene	ND	ND	101	12.8	13.0	2.96	3.00	1.3	70 - 130	20
Methyl Ethyl Ketone	ND	ND	104	2.56	2.53	0.870	0.860	1.2	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	83	514	535	148	154	4.0	70 - 130	20
n-Butylbenzene	ND	ND	104	1.37	1.37	0.250	0.250	0.0	70 - 130	20
o-Xylene	ND	ND	99	6.81	6.86	1.57	1.58	0.6	70 - 130	20
Propylene	ND	ND	102	2.75	4.11	1.60	2.39	39.6	70 - 130	20
sec-Butylbenzene	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	107	3.46	3.52	0.510	0.520	1.9	70 - 130	20
Tetrahydrofuran	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	ND	104	407	414	108	110	1.8	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	123	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	101	0.644	0.644	0.120	0.120	0.0	70 - 130	20
Trichlorofluoromethane	ND	ND	98	1.35	1.40	0.240	0.250	4.1	70 - 130	20
Trichlorotrifluoroethane	ND	ND	91	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	102	102	95	103	103	103	103	0.0	70 - 130	20

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
June 09, 2014

Sample Criteria Exceedences Report

GBG52182 - JADEENV

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

52182

JADE ENV.

5/30/14 78 CROTON AVE

START 11:00 AM +30 IN

STOP 6:40 PM 6 IN

G

CHAIN OF CUSTODY RECORD

AIR ANALYSES

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

800-827-5426
email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☑ Email: DAVE@JDGREEN.COM
- ☐ Phone #:

Report to: Dave Pelletier

Customer: Trade Env.

Address: 59 Circle Dr
Hopedale, Ct. NY 12533

Invoice to: SAME

Project Name: 78 Capon Rd

Requested Deliverable:
RCP ☐ ASP CAT B ☐
MCP ☐ NJ Deliverables ☐

Sampled by:

State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
52182	78 Capon Scan	463	6.0	-30	-5	CCC	0.4	10:40 AM	6:45 PM	5/30	-30"	-6	✓			✓	
	6L 8hr																

Relinquished by:

Accepted by:

Date: 6/2/14

Time: 16:47

Data Format:
- Excel ☐ Equis ☐ GISKey ☐
- PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

* CCC received on 6/4/14

Requested Criteria

Canister Number

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

5/20/14