PSC - Chemical Pollution Control, LLC of New York

Semiannual Groundwater Monitoring Program Report

April 2014 Sampling Event

Bay Shore Facility

(NYSDEC Permit No: 1-4728-00086/00002)

JUNE 2014

Dvirka and Bartilucci Consulting Engineers
A Division of D&B Engineers and Architects, P.C.

June 18, 2014

ELECTRONIC SUBMISSION

George Momberger, P.E., Environmental Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, Section A
625 Broadway, 12th Floor
Albany, NY 12233-7017

Subject: **PSC-Chemical Pollution Control, LLC of New York**
Bay Shore, NY
EPA ID Number NYD082785429
NYSDEC Permit Number 1-4728-00086/00002

Dear Mr. Momberger:

Enclosed, please find an electronic copy of the document entitled:

Semiannual Groundwater Monitoring Program Report
April 2014 Sampling Event
For
PSC-Chemical Pollution Control, LLC of New York
Bay Shore, New York

If you have any questions, please contact me at (425) 227-6170.

Sincerely,

Andy Maloy
Director, Environmental Liability Management

Enclosure
cc: B. Veith (D&B)

SEMIANNUAL GROUNDWATER MONITORING PROGRAM REPORT
APRIL 2014 SAMPLING EVENT

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
BAY SHORE, NEW YORK
NYSDEC PERMIT NO: 1-4728-00086/00002

Prepared for:

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
BAY SHORE, NEW YORK

Prepared by:

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
WOODBURY, NEW YORK

JUNE 2014

SEMIANNUAL GROUNDWATER MONITORING PROGRAM REPORT
APRIL 2014 SAMPLING EVENT
PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
BAY SHORE, NEW YORK

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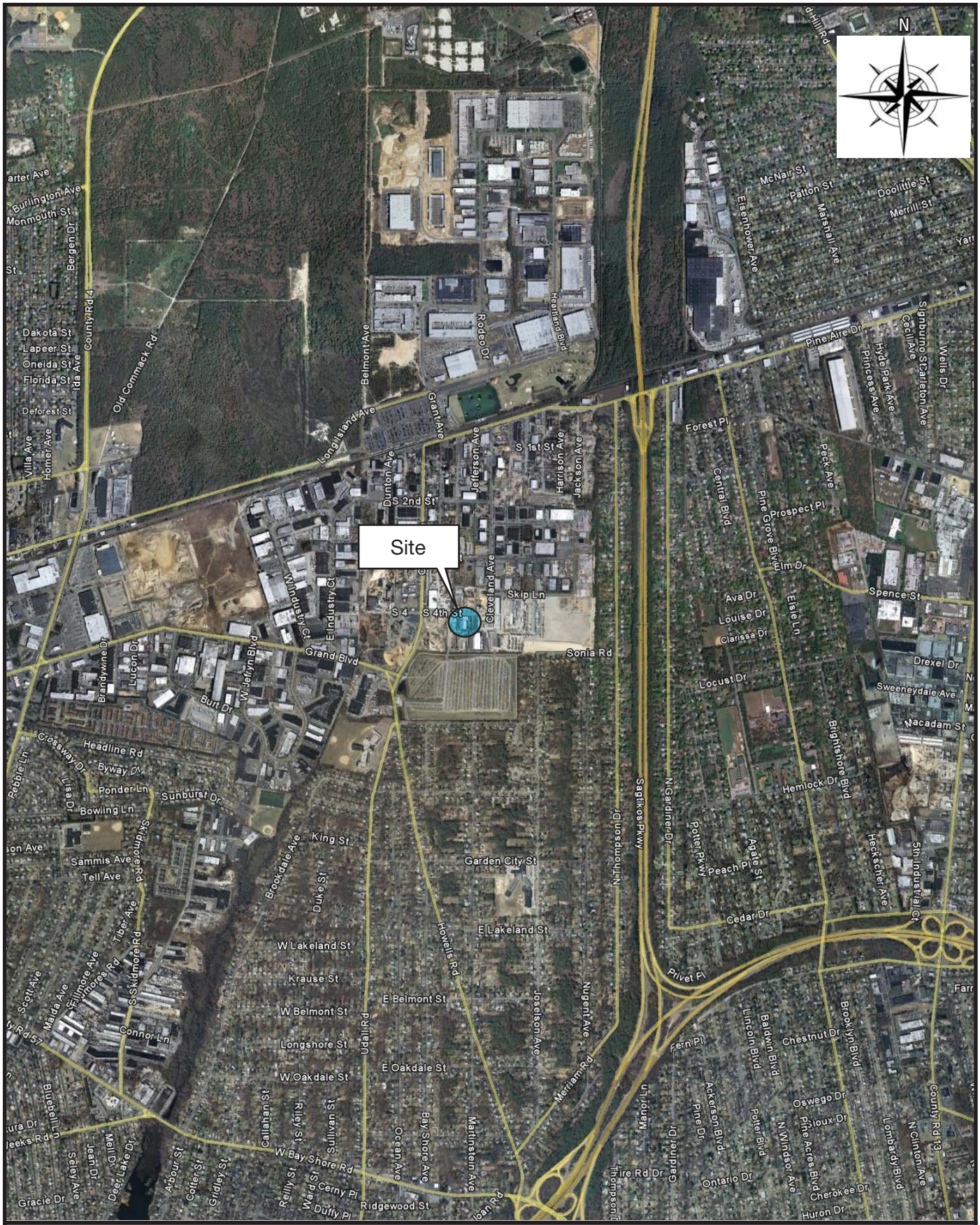
1.0 INTRODUCTION

This report presents the groundwater sample results for the April 2014 Sampling Event conducted as part of the New York State Department of Environmental Conservation (NYSDEC) required Semiannual Groundwater Monitoring Program at the PSC - Chemical Pollution Control, LLC of New York (CPC) Bay Shore facility. The facility is located at 120 South Fourth Street in Bay Shore, Suffolk County, New York (see Figure 1-1).

The CPC Bay Shore facility is a commercial hazardous waste treatment, storage and disposal facility that accepted and managed a variety of hazardous and nonhazardous waste including acids, alkalis, flammables, cyanides, sulfides, oxidizers, toxic waste, oily waste, photochemical waste, laboratory packaged waste, universal waste and polychlorinated biphenyl (PCB) waste under its existing Part 360/373 Permit (NYSDEC Permit No. 1-4728-00086/ 00002). Module V ("General Groundwater Monitoring Condition") of CPC's Part 360/373 Permit, which became effective on June 22, 2010, requires CPC to prepare and implement a Groundwater Monitoring Plan (GWMP). CPC retained the services of Dvirka and Bartilucci Consulting Engineers (D&B) to perform the April 2014 Semiannual Groundwater Monitoring Program sampling event in accordance with the NYSDEC-approved GWMP dated January 2010.

It should be noted that CPC has closed all of the hazardous waste storage areas formerly located at the Bay Shore facility in accordance with the requirements of 6 NYCRR Part 373, and has demolished and removed the facility building and support structures. As required by the NYSDEC and the facility's Part 373 Permit, CPC implemented a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) in August and September 2010, with supplemental soil sampling completed in October 2010. The existing on-site groundwater monitoring wells were sampled by D&B during performance of the RFI in August 2010 and the results of that sampling were presented in the RFI Report dated November 2010. The analytical results of the groundwater sampling completed by D&B during the RFI serve as a baseline for the Semiannual Groundwater Monitoring Program.



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PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
BAY SHORE, NEW YORK

SITE LOCATION MAP

FIGURE 1-1

The Semiannual Groundwater Monitoring Program is being performed in order to monitor groundwater flow direction and quality emanating from the CPC Bay Shore facility. This Semiannual Groundwater Monitoring Program Report includes a discussion of the sample locations, sampling procedures, laboratory analyses, field and analytical results, data validation, groundwater level measurements and flow direction. In addition, this report includes a comparison of the analytical results of the Semiannual Groundwater Monitoring Program April 2014 Sampling Event to the applicable New York State groundwater quality standards and guidelines, as well as the results obtained during the previous sampling events.

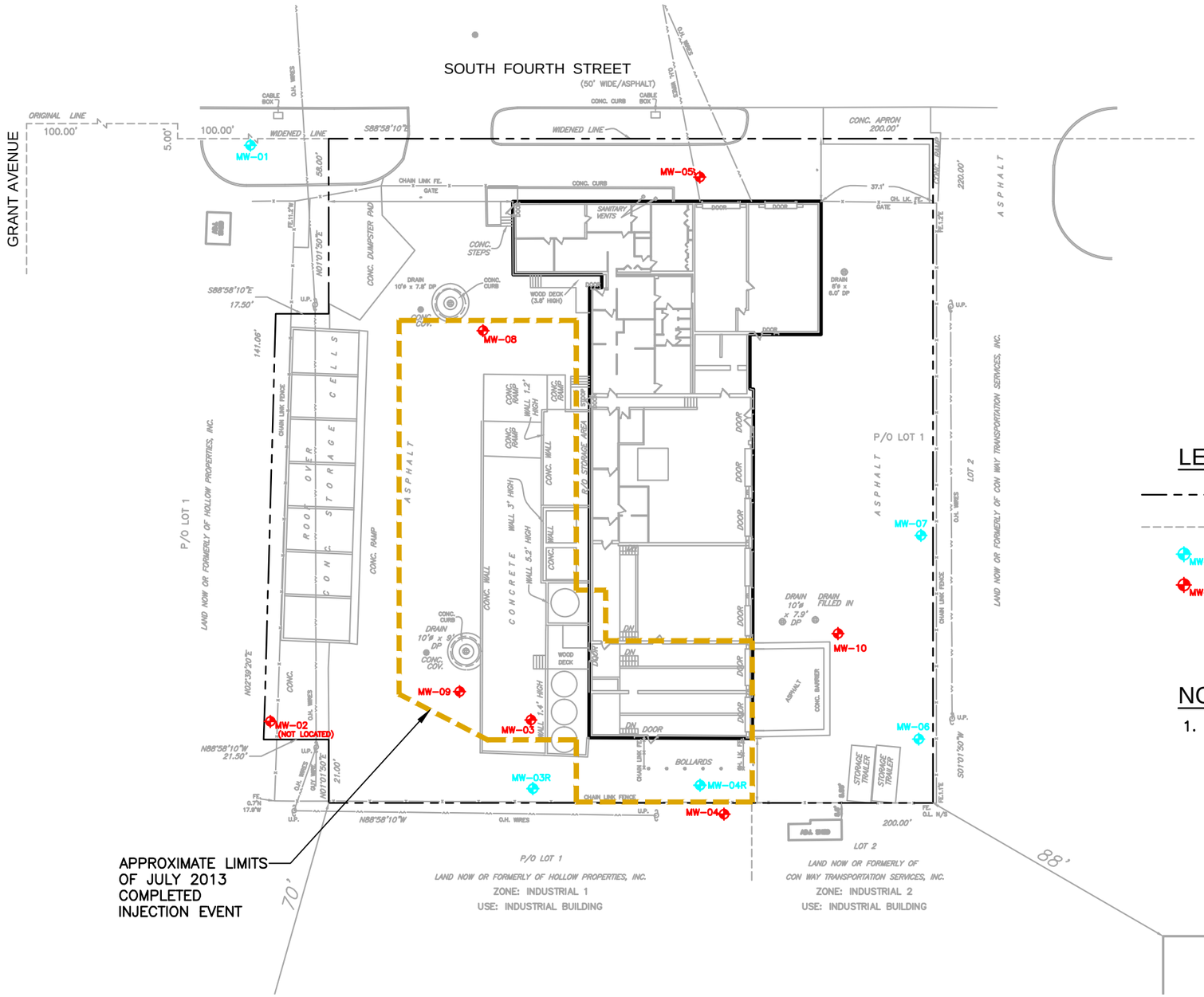
It should be noted that, as part of the Interim Corrective Measures (ICM) program and subsurface RCRA closure program undertaken at the facility in December 2012 through July 2013, approximately 3,000 cubic yards of impacted soil were excavated and removed from the facility for proper off-site disposal. Included in this soil removal were areas of VOC impacted soil formerly located upgradient of existing monitoring wells MW-3R and MW-4R and former monitoring wells MW-03, MW-04 and MW-09.

In July 2013, following the removal of impacted soil, an in-situ chemical oxidation (ISCO) injection program was performed at the facility to reduce the concentrations of certain chlorinated volatile organic compounds (VOCs) observed in groundwater during historical sampling events associated with the Semiannual Groundwater Monitoring Program. During the injection program, approximately 19,974 gallons of a 2% sodium permanganate solution were injected at 80 locations at targeted horizons of 10 to 14 feet and 16 to 20 feet below grade. The injection activities were performed in the 10,100-square-foot area to the west of the former building (see Figure 2-1 of this report).

2.0 SAMPLING LOCATIONS

Five monitoring wells were sampled at the CPC Bay Shore facility as part of the Semiannual Groundwater Monitoring Program April 2014 Sampling Event. These five wells are identified as monitoring wells MW-01, MW-03R, MW-04R, MW-06 and MW-07 as shown on Figure 2-1. Each monitoring well location indicated on Figure 2-1 includes a single monitoring well of varying depth and screened interval. Well construction information for each well sampled as part of this program is summarized in Table 2-1.

It should be noted that historically, 10 monitoring wells were located at the CPC Bay Shore facility (i.e., MW-01 through MW-10). As indicated in the RFI Report dated November 2010 (previously submitted to the NYSDEC), groundwater monitoring well MW-02 could not be located and is considered destroyed. As a result, nine monitoring wells were historically sampled as part of the Semiannual Groundwater Monitoring Program. However, as previously indicated, CPC has closed all of the hazardous waste storage areas formerly located at the facility in accordance with the requirements of 6 NYCRR Part 373, and has demolished and removed the former facility building and support structures. CPC is currently in the process of completing corrective action at the facility in accordance with the requirements of its Part 360/373 Permit and the NYSDEC-approved Interim Corrective Measures Work Plan dated January 2012 and has submitted an Interim Corrective Measures Final Report dated December 2013. In order to facilitate performance of the corrective action, below grade Resource Conservation and Recovery Act (RCRA) closure and facility demolition project, former monitoring wells MW-03, MW-04, MW-05, MW-08, MW-09 and MW-10 were decommissioned and removed on September 24 and 25, 2012 in accordance with the NYSDEC's CP-43 ("Groundwater Monitoring Well Decommissioning Policy"). In addition, two new downgradient wells (i.e., MW-03R and MW-04R) were installed on August 2, 2012 to replace decommissioned downgradient wells MW-03 and MW-04. The location of each well currently and formerly located at the facility is shown on Figure 2-1 and each well's construction information is summarized on Table 2-1.



LEGEND:

- PROPERTY LINE
- ADJACENT LOT LINES
- MW-01 MONITORING WELL
- MW-10 DECOMMISSIONED MONITORING WELL

NOTE:

1. ON-SITE BUILDING AND STRUCTURES HAVE BEEN DEMOLISHED AND REMOVED AS PART OF THE COMPLETED INTERIM CORRECTIVE MEASURES WORK PLAN, AND ARE ONLY SHOWN FOR REFERENCE.

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PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM

MONITORING WELL LOCATIONS

SCALE: 1" = 40'

FIGURE 2-1

Table 2-1

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS

Well Designation	Date Completed	Well Diameter (inches)	Screen Type	Total Depth (feet below land surface)	Screen Setting (feet below land surface)	Screen Setting (elevation relative to mean sea level)	Height of Measuring Point (feet relative to land surface)	Elevation of Measuring Point (feet above mean sea level)
Existing Monitoring Wells:								
MW-01	May 1987	4	PVC[(1)]	18	8-18	52.19 - 42.19	-0.30	59.89
MW-03R	August 2012	2	PVC	20	5-20	56.95 - 41.95	-0.22	61.73
MW-04R	August 2012	2	PVC	20	5-20	56.83 - 41.83	-0.25	61.58
MW-06	November 1994	4	PVC[(1)]	22	7-22	54.97 - 39.97	-0.56	61.41
MW-07	November 1994	4	PVC[(1)]	22	7-22	54.84 - 39.84	-0.40	61.44
Historical Monitoring Wells:								
MW-03	May 1987	4	PVC[(1)]	18	8-18	54.10 - 44.10	-0.95	61.15
MW-04	May 1987	4	PVC[(1)]	18	8-18	53.52 - 43.52	-0.91	60.61
MW-05	May 1987	4	PVC[(1)]	18	8-18	53.58 - 42.58	-0.45	61.13
MW-08	April 1997	2	PVC	30	5-30	55.91 - 30.91	-0.05	60.86
MW-09	April 1997	2	PVC	30	5-30	56.01 - 31.01	-0.18	60.83
MW-10	April 1997	2	PVC	30	5-30	56.01 - 31.01	-0.17	60.84

Notes:

PVC: Polyvinyl chloride.
(1) Assumed based upon available information.

(Sources: Arcadis Current Conditions Report, November 22, 2006; PSC Environmental Services, LLC Groundwater Monitoring Plan, January 8, 2010; D&B RFI and Focused CMS, November 2010; D&B Well Construction Logs, August 2, 2012).

3.0 SAMPLING PROCEDURES AND ANALYSES

The sampling procedures utilized for the collection of the groundwater samples were implemented in accordance with the protocols described in the NYSDEC-approved Groundwater Monitoring Plan (GWMP) dated January 2010. Dedicated and disposable sampling equipment was used whenever possible in accordance with the GWMP. Field decontamination of the non-disposable equipment was performed between sampling locations. The following sections provide a brief discussion of the procedures used during groundwater level measurements, groundwater sampling and sample analysis.

3.1 Groundwater Level Measurement Procedures

Synoptic water level measurements were obtained from the monitoring wells to determine the volume of standing water in each well for purging purposes, as well as for determining groundwater elevations and flow direction. Groundwater level measurements were obtained from a surveyed measuring point on each well using an electronic water level indicator to an accuracy of 0.01 foot. Prior to measuring the water level, each well was allowed to vent to the atmosphere for approximately two minutes.

All monitoring wells were checked for the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL) using an oil/water interface probe. In addition, headspace readings were recorded in each well using a calibrated photoionization detector (PID). The Field Observation Logs presented in Appendix B-1 and Table 4-1 provide the headspace readings collected during the sampling program. A discussion of the groundwater level measurements, LNAPL/DNAPL results and groundwater flow direction is provided in Section 6.0 of this report.

In addition, prior to sampling each well, D&B performed a visual inspection to verify the physical condition of the well at the ground surface. The results of these inspections are documented on Well Condition Reports provided in Appendix B-3. The monitoring wells were determined to be suitable for sampling purposes.

3.2 Sampling Procedures

The monitoring wells were sampled via low-flow sampling techniques (500 ml/min or less) utilizing a low-flow bladder pump with disposable tubing to purge and sample each well. During the well purging process, field measurements of pH, temperature, specific conductivity, oxidation reduction potential (ORP), dissolved oxygen and turbidity were recorded using a calibrated Horiba U52 water quality meter with flow-through cell. Groundwater samples were collected in precleaned, laboratory-supplied sample containers after the field parameter values had stabilized as required by the GWMP. The sample containers were labeled and placed in a cooler with bagged ice sufficient to cool the samples to 4 degrees Celsius.

All decontamination water and purge water generated during the sampling activities were containerized in a DOT-approved 55-gallon drum and stored on-site prior to characterization and off-site disposal. The drum was sealed at the end of the workday and properly labeled for disposal. All non-dedicated sampling equipment (e.g., low-flow bladder pump) was properly decontaminated between sampling locations and all disposable sampling equipment was properly disposed following its one-time use.

All appropriate quality assurance/quality control (QA/QC) samples were collected in accordance with the GWMP, including one field blank, one matrix spike/matrix spike duplicate (MS/MSD), one blind duplicate and one trip blank.

The analytical results of the samples are provided in Appendix A and discussed in Section 4.0 of this report. Field forms for the April 2014 Sampling Event, including field observation logs and daily equipment calibration logs, are provided in Appendices B-1 and B-2, respectively, and Chain of Custody forms are provided in Appendix C.

3.3 Sample Analyses

In accordance with the GWMP, each groundwater sample was analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260, TCL semivolatile organic compounds (SVOCs) by USEPA Method 8270 and priority pollutant metals by USEPA Method 6010C/7470A. However, in order to support the groundwater remediation activities and consistent with the NYSDEC's approval of the January 2012 Interim Corrective Measures Work Plan, the list of metals utilized for the April 2014 Sampling Event was expanded to include Target Analyte List (TAL) metals. In addition, each groundwater sample was analyzed for alkalinity by USEPA Method SM 2320.

4.0 ANALYTICAL RESULTS

4.1 Field Parameters

Table 4-1 provides a summary of the final field parameter values and field data measured for the April 2014 Sampling Event.

4.2 Monitoring Wells

As indicated previously, existing monitoring wells MW-01, MW-03R, MW-04R, MW-06 and MW-07 were sampled during the April 2014 Sampling Event for laboratory analysis for TCL VOCs, TCL SVOCs, TAL metals and alkalinity.

The analytical results of the groundwater samples collected from the monitoring wells, compared to the previous sampling results and the NYSDEC's Class GA Groundwater Standards and Guidance Values, are provided in Appendix A. Figure 4-1 presents a groundwater sample location map overlain with a summary of the groundwater data for the wells where exceedances of the Class GA Groundwater Standards/Guidance Values were detected during the April 2014 Sampling Event. Provided below is a brief summary of the analytical results.

Volatile Organic Compounds

The results of the VOC analyses performed on the groundwater samples are presented in Appendix A-1. All of the VOCs analyzed for were either not detected or were detected at concentrations below their respective Class GA Groundwater Standard/Guidance Value, with the exception of the following chlorinated VOC (CVOC):

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- Tetrachloroethene (PCE) was detected at a concentration of 6.5 ug/l in sample MW-03R which exceeds the Class GA Groundwater Standard of 5 ug/l.

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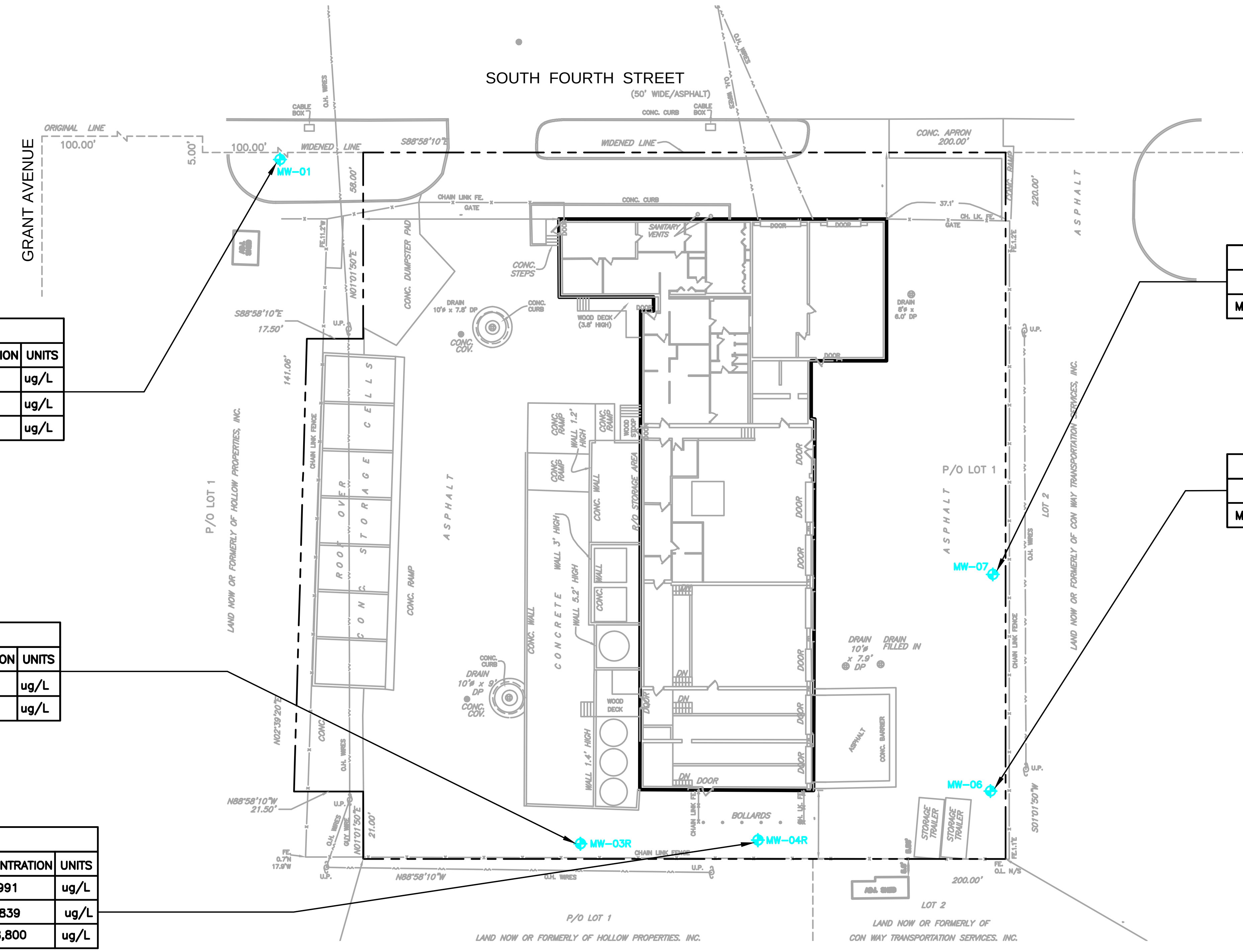
Table 4-1

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
APRIL 2014 SAMPLING EVENT
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA

Monitoring Well	pH (Standard Units)	Temperature (°C)	Specific Conductance (ms/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/l)	PID Readings (ppm)	Purging Method	Groundwater Elevation April 22, 2014 (feet above msl)
MW-01	6.63	13.10	0.702	0	147	3.70	0.0	Low-flow bladder pump	50.23
MW-03R	6.48	11.24	0.424	0	178	3.55	0.0	Low-flow bladder pump	49.88
MW-04R	6.48	10.53	0.487	0	179	5.10	0.1	Low-flow bladder pump	49.78
MW-06	6.73	11.63	0.524	0	146	2.86	0.0	Low-flow bladder pump	49.70
MW-07	6.69	12.73	0.562	0	141	2.43	0.0	Low-flow bladder pump	49.75

Monitoring Well	Initial Depth to Water (in feet)	Depth of Well (in feet)	Well Diameter (inches)	Volume of Water Purged (gallons)	Date of Sampling	Time of Sampling	Sampler's Initials	Weather Condition
MW-01	9.66	17.00	4	4	April 22, 2014	3:35 p.m.	KR	Partly cloudy
MW-03R	11.85	20.10	2	3.2	April 22, 2014	8:45 a.m.	KR	Partly cloudy
MW-04R	11.80	20.10	2	3.3	April 22, 2014	10:35 a.m.	KR	Partly cloudy
MW-06	11.71	21.50	4	6.5	April 22, 2014	12:25 p.m.	KR	Partly cloudy
MW-07	11.69	21.40	4	6.5	April 22, 2014	2:05 p.m.	KR	Partly cloudy

°C: Degrees Celsius
DO: Dissolved oxygen
mg/l: Milligrams per liter
msl: Mean sea level
ms/cm: Millisiemens per centimeter
mV: Millivolt
NTU: Nephelometric Turbidity Unit
ORP: Oxidation Reduction Potential
PID: Photoionization detector
ppm: Parts per million



MW-01

	CONSTITUENT	SCG	CONCENTRATION	UNITS
METALS	IRON AND MANGANESE	500 ST	2,752	ug/L
	MANGANESE	300 ST	2,650	ug/L
	SODIUM	20,000 ST	78,000	ug/L

MW-03R

	CONSTITUENT	SCG	CONCENTRATION	UNITS
VOCs	TETRACHLOROETHENE	5 ST	6.5	ug/L
METALS	SODIUM	20,000 ST	29,300	ug/L

MW-04R

	CONSTITUENT	SCG	CONCENTRATION	UNITS
METALS	IRON AND MANGANESE	500 ST	991	ug/L
	IRON	300 ST	839	ug/L
	SODIUM	20,000 ST	28,800	ug/L

MW-07

	CONSTITUENT	SCG	CONCENTRATION	UNITS
METALS	SODIUM	20,000 ST	30,900	ug/L

MW-06

	CONSTITUENT	SCG	CONCENTRATION	UNITS
METALS	SODIUM	20,000 ST	30,600	ug/L

LEGEND:

- PROPERTY LINE
- ADJACENT LOT LINES
- MONITORING WELL (MW-1)

NOTES:

1. VOCs – VOLATILE ORGANIC COMPOUNDS
2. SCG – TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES
3. ST – STANDARD
4. GV – GUIDANCE VALUE
5. ONLY EXCEEDANCES OF THE SCG ARE SHOWN
6. ON-SITE BUILDING AND STRUCTURES HAVE BEEN DEMOLISHED AND REMOVED AS PART OF THE COMPLETED INTERIM CORRECTIVE MEASURE WORK PLAN, AND ARE ONLY SHOWN FOR REFERENCE.

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SEMIANNUAL GROUNDWATER MONITORING PROGRAM

SUMMARY OF GROUNDWATER EXCEEDANCES
APRIL 2014 SAMPLING EVENT

SCALE: 1" = 40'

FIGURE 4-1

F:\2786\2786-P\2786-DATA-SEPT FIG 4-1.dwg, FIG 4-1, 6/17/2014 3:15:12 PM, kalesius

As shown on Figure 4-1, well MW-03R is located along the southern, downgradient boundary of the facility.

The CVOC detected during the April 2014 Sampling Event was also detected during previous sampling events. Table 4-2 summarizes the total VOC concentrations for MW-03, MW-03R, MW-04, MW-04R, MW-06, MW-09 and MW-10, which are the seven monitoring wells located at the facility that have historically exhibited CVOC concentrations exceeding the Class GA Groundwater Standards since the August 2010 Sampling Event. As indicated in the table, the total VOCs concentration decreased significantly for MW-04R and MW-06, and remained fairly consistent for MW-03R, as compared to the results of the September 2013 Sampling Event.

Table 4-2

SUMMARY OF TOTAL VOCs

Monitoring Well	August 2010	April 2011	Sept. 2011	April 2012	Sept. 2012	April 2013	Sept. 2013	April 2014
MW-03	95.7	19	52.8	28.7	9.6	decom.	decom.	decom.
MW-03R	--	--	--	--	7.3	30.2	8.2	8.5
MW-04	646.4	104.5	284.8	22.1	98	decom.	decom.	decom.
MW-04R	--	--	--	--	180	106.5	50.01	3.3
MW-06	ND	3.9	7.9	2.9	5.9	9.21	22.9	ND
MW-09	68.5	26.8	41.8	6.1	6.2	decom.	decom.	decom.
MW-10	2.9	1.0	19.3	5.3	4.48	decom.	decom.	decom.

Notes:
Results are reported in ug/l.
-- : Well not sampled since it was not installed until August 2012.
decom.: Well decommissioned in late September 2012.
ND: Not detected.

Semivolatile Organic Compounds

The results of the SVOC analyses performed on the groundwater samples are presented in Appendix A-2. All of the SVOCs analyzed for were either not detected or were detected at concentrations below their respective Class GA Groundwater Standard/Guidance Value.

Target Analyte List Metals and Alkalinity

The results of the TAL metal and alkalinity analyses performed on the groundwater samples are presented in Appendix A-3. All of the metals analyzed for were either not detected or were detected at concentrations below their respective Class GA Groundwater Standard/ Guidance Value with the exception of the following:

- Iron was detected at a concentration of 839 ug/l in monitoring well MW-04R which exceeds the Class GA Groundwater Standard of 300 ug/l.
- Manganese was detected at a concentration of 2,650 ug/l in monitoring well MW-01 which exceeds the Class GA Groundwater Standard of 300 ug/l.
- Sodium was detected at concentrations of 78,000 ug/l, 29,300 ug/l, 28,800 ug/l, 30,600 ug/l and 30,900 ug/l in monitoring wells MW-01, MW-03R, MW-04R, MW-06 and MW-07, respectively, which exceed the Class GA Groundwater Standard of 20,000 ug/l.
- Total iron and manganese was detected at concentrations of 2,752 ug/l and 991 ug/l, in monitoring wells MW-01 and MW-04R, respectively, which exceed the Class GA Groundwater Standard of 500 ug/l.

Alkalinity ranged in concentration from 130 mg/l in monitoring well MW-04R to a maximum of 160 mg/l in monitoring wells MW-03R and MW-07. There is no Class GA Groundwater Standard or Guidance Value for alkalinity.

5.0 DATA VALIDATION

Five groundwater samples, one blind duplicate, one matrix spike/matrix spike duplicate (MS/MSD) set, one field blank and one trip blank were collected as part of the April 2014 Sampling Event performed at the CPC Bay Shore facility. All samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), Target Analyte List (TAL) metals and alkalinity. Sample analysis was performed in accordance with SW-846 methods. The laboratory analyses were performed by Spectrum Analytical, Inc. of North Kingstown, Rhode Island, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) laboratory, and reported in data package N0633.

The data package submitted by the analytical laboratory was validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements, the contract requirements and the Groundwater Monitoring Plan dated January 2010. A copy of the Data Validation Checklist is provided in Appendix D. All samples were analyzed within the method specified holding times. The following requirements were outside limits and required qualification of the data:

- The percent differences (%Ds) for iodomethane was above QC limits in the continuing calibration associated with all samples except MW-01. Iodomethane was qualified as an estimated detection limit (UJ) in the associated samples.
- Di-n-butylphthalate was detected in the method blank and field blank. Di-n-butylphthalate was qualified as non-detect (UB) in samples MW-04R, MW-06, BLIND DUPLICATE and MW-07.
- Barium, calcium, cobalt, nickel, sodium, vanadium and zinc were detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit. The following metals were qualified as non-detect (UB): cobalt and vanadium in samples MW-04R and MW-06, and nickel and zinc in all samples.

One blind duplicate sample was collected from well MW-04R. In addition, one matrix spike/matrix spike duplicate set was collected from well MW-03R.

No other issues were found with the sample results and all results are deemed valid and usable for environmental assessment purposes as qualified above. Data Validation Forms completed for the April 2014 Sampling Event are provided in Appendix D.

6.0 GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

Groundwater level measurements were obtained by D&B on April 22, 2014 from the five monitoring wells located at the CPC Bay Shore facility. The results of these measurements are presented in Table 6-1. Neither light non-aqueous phase liquid (LNAPL) nor dense non-aqueous phase liquid (DNAPL) was detected or observed in any of the monitoring wells during this sampling event. The following section provides information on the groundwater contours derived from the groundwater level measurements.

6.1 Water Table Contours

A water table elevation contour map prepared from the measurements obtained on April 22, 2014 is presented as Figure 6-1. The wells utilized in the preparation of the contour map are screened at or near the water table in the Upper Glacial aquifer.

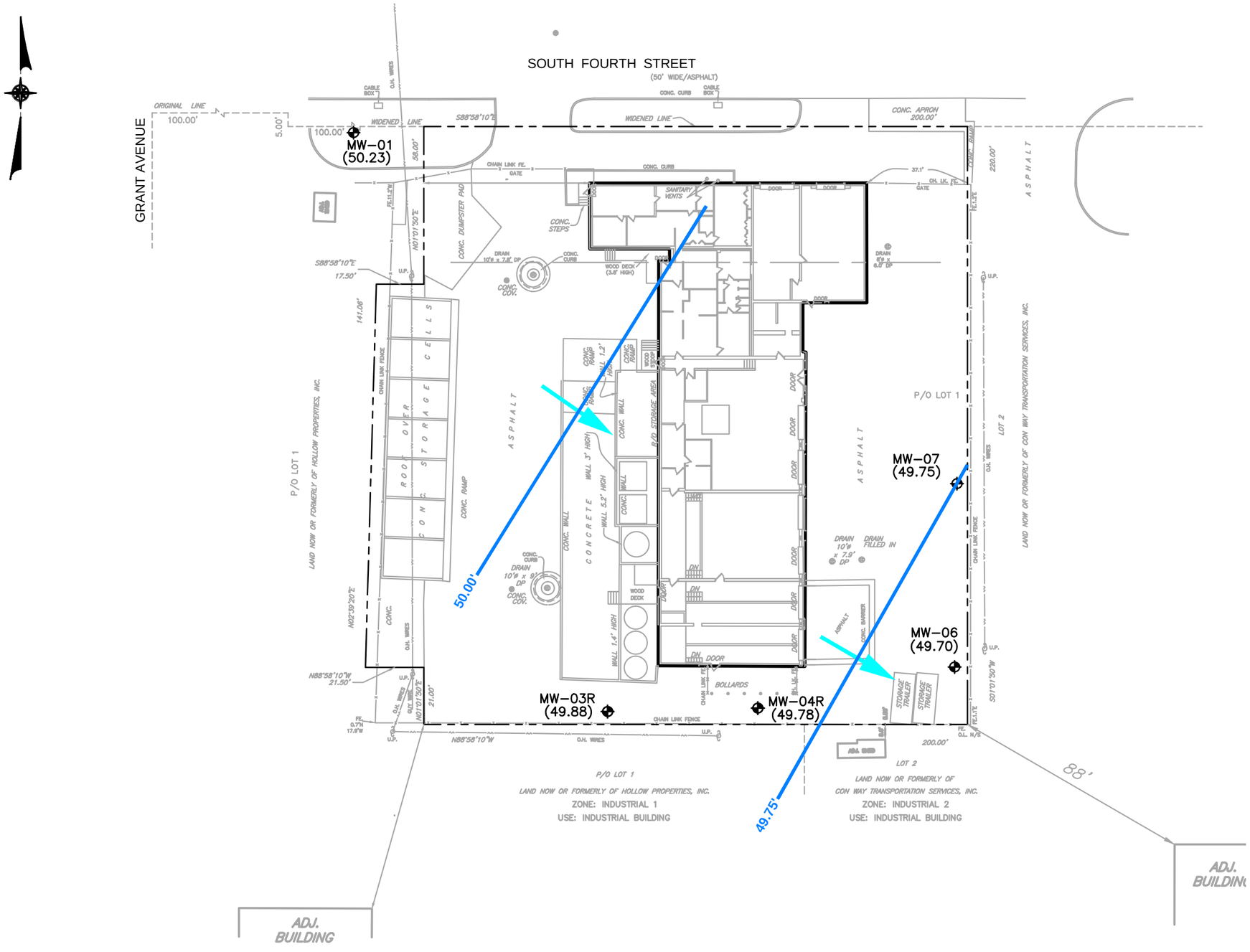
Based on a review of the groundwater level elevation data collected from the monitoring wells, the direction of the horizontal component of groundwater flow in the Upper Glacial aquifer is predominantly southeast, which is consistent with flow conditions previously mapped. In addition, the groundwater flow velocity was calculated utilizing Darcy's Law to be approximately 1.5 feet per day (see Table 6-2).

Table 6-1

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
MONITORING WELL GROUNDWATER ELEVATION MEASUREMENTS
APRIL 22, 2014

Well Designation	Measuring Point Elevation (feet above msl)	Depth to Water from Measuring Point (feet)	Groundwater Elevation (feet above msl)
MW-01	59.89	9.66	50.23
MW-03R	61.73	11.85	49.88
MW-04R	61.58	11.80	49.78
MW-06	61.41	11.71	49.70
MW-07	61.44	11.69	49.75

Note: LNAPL/DNAPL was not detected in any of the monitoring wells during the sampling event.



LEGEND:

- PROPERTY LINE
- ADJACENT LOT LINES
- MW-01 (50.23) — LOCATION AND DESIGNATION OF MONITORING WELL AND GROUNDWATER ELEVATION ABOVE MEAN SEA LEVEL (MSL)
- 50.23' — LINE OF EQUAL GROUNDWATER ELEVATION IN FEET ABOVE MSL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES:

1. CONTOUR INTERVAL EQUALS 0.25 FEET
2. ON-SITE BUILDING AND STRUCTURES HAVE BEEN DEMOLISHED AND REMOVED AS PART OF THE COMPLETED INTERIM CORRECTIVE MEASURES WORK PLAN, AND ARE ONLY SHOWN FOR REFERENCE.

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SEMIANNUAL GROUNDWATER MONITORING PROGRAM

WATER TABLE CONTOUR MAP

APRIL 22, 2013

SCALE: 1" = 40'

FIGURE 6-1

F:\27861\2786-P\2786-WT-SEPT.dwg, 6-1, 6/17/2014 3:15:13 PM, kalesius

Table 6-2

PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
APRIL 2014 SAMPLING EVENT

Calculation of Groundwater Flow Velocity

1. Darcy's Law:

$V = Ki/n$

Where:

V = calculated groundwater velocity
K = hydraulic conductivity
i = hydraulic gradient
n = effective porosity

K =	0.1	cm/sec	(typical value for well sorted sands and glacial outwash)
n =	32	%	(typical value for medium sands)

2. Hydraulic Gradient Calculation

To calculate hydraulic gradient, the change in water table elevation was determined using water level measurements taken from MW-1 and MW-4R:

MW-01 GW El =	50.23	feet above mean sea level (amsl)
MW-04R GW El =	49.78	feet amsl
Distance between MW-01 and MW-04R =	260	feet

i = 0.00173 ft/ft

3. Groundwater Velocity Calculation:

$V = Ki/n$
$V =$ **1.5** ft/day

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following sections present the conclusions and recommendations of the Semiannual Groundwater Monitoring Program based on the April 2014 Sampling Event.

7.1 Conclusions

Groundwater Flow

Based on the groundwater elevation measurements obtained during the April 2014 Sampling Event and the water table elevation contour map prepared for the site, groundwater flow is predominantly in a southeasterly direction. These results are consistent with previous elevation measurements obtained and maps prepared for the site.

Monitoring Wells

Based on a comparison of the September 2013 and April 2014 sample results, total VOC concentrations detected during the April 2014 Sampling Event decreased in wells MW-04R (50.01 ug/l to 3.3 ug/l) and MW-06 (22.9 ug/l to non-detect). Total VOC concentrations for wells MW-01, MW-03R and MW-07 remained consistent between the September 2013 and April 2014 sample results. The total VOC concentrations for these wells in April 2014 were non-detect, 8.5 ug/l and 2.9 ug/l, respectively. Tetrachloroethene (PCE) detected in well MW-03R was the only VOC detected that exceeded its respective Class GA Groundwater Standard (6.5 ug/l versus 5 ug/l).

Iron, manganese, sodium and total iron and manganese were detected at concentrations above their respective Class GA Groundwater Standards in one or more of the five groundwater monitoring well samples, including the sample collected from MW-01 (upgradient well). Typically, these metals are naturally elevated in Long Island groundwater and have historically been observed in the facility's groundwater samples. In addition, these metals were not detected at concentrations above the Unrestricted Use Soil Cleanup Objectives (SCOs) in the soil samples

collected and analyzed during the completion of the RFI. Therefore, it appears that the concentrations of these metals in groundwater are not a result of these metals leaching from soil but rather a result of natural conditions.

Chromium and selenium have returned to their pre-injection concentrations in groundwater at the facility and were detected at concentrations below the Class GA Groundwater Standards. As suspected, these two metals were likely temporarily mobilized by the ISCO program and appear to have returned to their typical concentrations following the passage of sufficient time. In addition, sodium appears to have returned to its pre-injection concentrations as well.

Historically, groundwater in the vicinity of MW-4 and MW-4R has exhibited the highest concentrations of VOCs at the facility. It appears the removal of VOC-impacted soil formerly located hydraulically upgradient of this location coupled with the ISCO program has significantly reduced the VOC impact observed in this location. Total VOC concentrations in this area have been reduced by approximately 98% and all individual VOC concentrations are now below their respective Class GA Groundwater Standards. Based on the above, it appears that the remediation activities were successful in not only reducing soil concentrations, but also reducing the VOC impact to groundwater quality.

7.2 Recommendations

Based upon the results of the April 2014 Sampling Event, the monitoring frequency should remain semiannual. Groundwater monitoring should continue through the term of the facility's Part 373 Permit, which is set to expire in June 2015. If VOC concentrations in groundwater remain fairly consistent with the April 2014 Sampling Event, then the facility should be delisted from the New York Registry of Inactive Hazardous Waste Site and the corrective action requirements specified by the facility's Part 373 Permit should be determined to be satisfied.

APPENDIX A-1

MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/7/2012	4/5/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	U	U	U	5	5
Carbon Disulfide	U	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	U	U	U	U	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	5	5
n-Propylbenzene	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	5	5
sec-Butylbenzene	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	U	5	5
Toluene	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	U	U	U	U	U	5	5
Trichlorofluoromethane	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	5	5
Total Volatile Organic Compounds	0	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-01		MW-01		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013		4/22/2014			
Dilution Factor	1		1			
Units	ug/l		ug/l			
1,1,1,2-Tetrachloroethane		U		U	5	5
1,1,1-Trichloroethane		U		U	5	5
1,1,2,2-Tetrachloroethane		U		U	5	5
1,1,2-Trichloroethane		U		U	5	1
1,1-Dichloroethane		U		U	5	5
1,1-Dichloroethene		U		U	5	5
1,1-Dichloropropene		U		U	5	5
1,2,3-Trichlorobenzene		U		U	5	5
1,2,3-Trichloropropane		U		U	5	0.04
1,2,4-Trichlorobenzene		U		U	5	5
1,2,4-Trimethylbenzene		U		U	5	5
1,2-Dibromo-3-chloropropane		U		U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)		U		U	5	0.0006
1,2-Dichlorobenzene		U		U	5	3
1,2-Dichloroethane		U		U	5	0.6
1,2-Dichloropropane		U		U	5	1
1,3,5-Trimethylbenzene (Mesitylene)		U		U	5	5
1,3-Dichlorobenzene		U		U	5	3
1,3-Dichloropropane		U		U	5	5
1,4-Dichlorobenzene		U		U	5	3
2,2-Dichloropropane		U		U	5	5
2-Chlorotoluene		U		U	5	50
2-Hexanone		U		U	5	50
4-Chlorotoluene		U		U	5	5
Acetone		U		U	5	50
Benzene		U		U	5	1
Bromobenzene		U		U	5	5
Bromochloromethane		U		U	5	5
Bromodichloromethane		U		U	5	50
Bromoform		U		U	5	50
Bromomethane		U		U	5	5
Carbon Disulfide		U		U	5	60
Carbon Tetrachloride		U		U	5	5
Chlorobenzene		U		U	5	5
Chloroethane		U		U	5	5
Chloroform		U		U	5	7
Chloromethane		U		U	5	5
cis-1,2-Dichloroethylene		U		U	5	5
cis-1,3-Dichloropropene		U		U	5	0.4
Cymene		U		U	5	5
Dibromochloromethane		U		U	5	50
Dibromomethane		U		U	5	5
Dichlorodifluoromethane		U		U	5	5
Ethylbenzene		U		U	5	5
Hexachlorobutadiene		U		U	5	0.5
Iodomethane (Methyl Iodide)		U		U	5	5
Isopropylbenzene (Cumene)		U		U	5	5
Methyl Ethyl Ketone (2-Butanone)		U		U	5	50
Methyl Isobutyl Ketone		U		U	5	--
Methylene Chloride		U		U	5	5
m&p-Xylene		U		U	5	5
Naphthalene		U		U	5	10
n-Butylbenzene		U		U	5	5
n-Propylbenzene		U		U	5	5
o-Xylene (1,2-Dimethylbenzene)		U		U	5	5
sec-Butylbenzene		U		U	5	5
Styrene		U		U	5	5
t-Butylbenzene		U		U	5	5
tert-Butyl Methyl Ether		U		U	5	10
Tetrachloroethylene (PCE)		U		U	5	5
Toluene		U		U	5	5
trans-1,2-Dichloroethene		U		U	5	5
trans-1,3-Dichloropropene		U		U	5	0.4
Trichloroethylene (TCE)	1.4	J		U	5	5
Trichlorofluoromethane		U		U	5	5
Vinyl Acetate		U		U	5	--
Vinyl Chloride		U		U	5	2
Xylenes, Total		U		U	5	5
Total Volatile Organic Compounds	1.4		0		--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

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Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-03	MW-03	MW-03	MW-03	MW-03	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	**6.5**	U	0.56 J	0.63 J	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U*	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	4.2 J	4.2 J	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	**25**	1.1 J	**8.1**	3.9 J	1.4 J	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	5	10
n-Butylbenzene	U	U	U	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	4.2 J	**11**	**18**	5 J	U	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	**60**	**6.9**	**22**	**15**	**8.2**	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	5	5
Total Volatile Organic Compounds	95.7	19	52.86	28.73	9.6	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
Bold : Exceeds Class GA Groundwater Standard/ Guidance Value

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Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-03R	MW-03R	MW-03R	MW-03R	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	9/6/2012	4/4/2013	9/5/2013	04/22/14		
Dilution Factor	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	UJ	U	U	5	5
1,2,4-Trimethylbenzene	U	U	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	UJ	U	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	5	3
2,2-Dichloropropane	UJ	U	U	U	5	5
2-Chlorotoluene	U	U	U	U	5	50
2-Hexanone	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	5	5
Acetone	U	U	U	U	5	50
Benzene	U	U	U	U	5	1
Bromobenzene	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	5	50
Bromoform	U	U	U	U	5	50
Bromomethane	U	U	U	U	5	5
Carbon Disulfide	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	5	5
Chloroethane	U	U	U	U	5	5
Chloroform	U	1.3 J	U	U	5	7
Chloromethane	U	U	U	U	5	5
cis-1,2-Dichloroethylene	1.2 J	1.9 J	1.0 J	**U**	5	5
cis-1,3-Dichloropropene	U	U	U	U	5	0.4
Cymene	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	5	50
Dibromomethane	U	UJ	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	U	UJ	5	5
Isopropylbenzene (Cumene)	U	UJ	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	5	5
Naphthalene	U	U	U	U	5	10
n-Butylbenzene	U	UJ	U	U	5	5
n-Propylbenzene	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	UJ	U	U	5	5
sec-Butylbenzene	U	U	U	U	5	5
Styrene	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	**15 J**	1.6 J	**6.5**	5	5
Toluene	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	5	0.4
Trichloroethylene (TCE)	**6.1**	**12**	**5.6**	2 J	5	5
Trichlorofluoromethane	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	5	2
Xylenes, Total	U	UJ	U	U	5	5
Total Volatile Organic Compounds	7.3	30.2	8.2	8.5	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-04	MW-04	MW-04	MW-04	MW-04	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/13/2012	9/7/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	2.9 J	U	2.2 J	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	0.65 J	0.6 J	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	**350 D**	**45**	**120**	**9.7**	**40**	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	5	10
n-Butylbenzene	U	U	U	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	**12**	**5.5**	**12**	0.82 J	U	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	1.5 J	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	**280 D**	**54**	**150**	**11**	**58**	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	5	5
Total Volatile Organic Compounds	646.4	104.5	284.85	22.12	98	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-04R	MW-04R	MW-04R	MW-04R	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
Date Collected	9/5/2012	4/4/2013	9/5/2013	04/22/14		
Dilution Factor	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	0.51 J	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	UJ	U	U	5	5
1,2,4-Trimethylbenzene	U	U	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	UJ	U	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	5	3
2,2-Dichloropropane	UJ	U	U	U	5	5
2-Chlorotoluene	U	U	U	U	5	50
2-Hexanone	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	5	5
Acetone	U	U	U	U	5	50
Benzene	U	U	U	U	5	1
Bromobenzene	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	5	50
Bromoform	U	U	U	U	5	50
Bromomethane	U	U	U	U	5	5
Carbon Disulfide	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	5	5
Chloroethane	U	U	U	U	5	5
Chloroform	5.6	1.8 J	1.0 J	U	5	7
Chloromethane	U	U	U	U	5	5
cis-1,2-Dichloroethylene	**70**	**41**	**17**	U	5	5
cis-1,3-Dichloropropene	U	U	U	U	5	0.4
Cymene	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	5	50
Dibromomethane	U	UJ	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	U	UJ	5	5
Isopropylbenzene (Cumene)	U	UJ	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	5	5
Naphthalene	U	U	U	U	5	10
n-Butylbenzene	U	UJ	U	U	5	5
n-Propylbenzene	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	UJ	U	U	5	5
sec-Butylbenzene	U	U	U	U	5	5
Styrene	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	5	10
Tetrachloroethylene (PCE)	**6.4**	4.7 J	2.5 J	1.3 J	5	5
Toluene	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	5	0.4
Trichloroethylene (TCE)	**98**	**59**	**29**	2 J	5	5
Trichlorofluoromethane	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	5	2
Xylenes, Total	U	UJ	U	U	5	5
Total Volatile Organic Compounds	180	106.5	50.01	3.3	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-05	MW-05	MW-05	MW-05	MW-05	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/5/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	U	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	U	U	U	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	5	10
n-Butylbenzene	U	U	U	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	U	U	U	U	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	5	5
Total Volatile Organic Compounds	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	UJ	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	U	5	5
Carbon Disulfide	U	U	U	U*	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	1.7 J	3.5 J	1.1 J	2.7 J	3.8 J	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	5	5
n-Propylbenzene	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	5	5
sec-Butylbenzene	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	0.81 J	5	5
Toluene	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	2.2 J	4.4 J	1.8 J	3.2 J	4.6 J	5	5
Trichlorofluoromethane	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	5	5
Total Volatile Organic Compounds	0	3.9	7.9	2.9	5.9	9.21	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
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Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-06		MW-06		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013		4/22/2014			
Dilution Factor	1		1			
Units	ug/l		ug/l			
1,1,1,2-Tetrachloroethane		U		U	5	5
1,1,1-Trichloroethane		U		U	5	5
1,1,2,2-Tetrachloroethane		U		U	5	5
1,1,2-Trichloroethane		U		U	5	1
1,1-Dichloroethane		U		U	5	5
1,1-Dichloroethene		U		U	5	5
1,1-Dichloropropene		U		U	5	5
1,2,3-Trichlorobenzene		U		U	5	5
1,2,3-Trichloropropane		U		U	5	0.04
1,2,4-Trichlorobenzene		U		U	5	5
1,2,4-Trimethylbenzene		U		U	5	5
1,2-Dibromo-3-chloropropane		U		U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)		U		U	5	0.0006
1,2-Dichlorobenzene		U		U	5	3
1,2-Dichloroethane		U		U	5	0.6
1,2-Dichloropropane		U		U	5	1
1,3,5-Trimethylbenzene (Mesitylene)		U		U	5	5
1,3-Dichlorobenzene		U		U	5	3
1,3-Dichloropropane		U		U	5	5
1,4-Dichlorobenzene		U		U	5	3
2,2-Dichloropropane		U		U	5	5
2-Chlorotoluene		U		U	5	50
2-Hexanone		U		U	5	50
4-Chlorotoluene		U		U	5	5
Acetone		U		U	5	50
Benzene		U		U	5	1
Bromobenzene		U		U	5	5
Bromochloromethane		U		U	5	5
Bromodichloromethane		U		U	5	50
Bromoform		U		U	5	50
Bromomethane		U		U	5	5
Carbon Disulfide		U		U	5	60
Carbon Tetrachloride		U		U	5	5
Chlorobenzene		U		U	5	5
Chloroethane		U		U	5	5
Chloroform		U		U	5	7
Chloromethane		U		U	5	5
cis-1,2-Dichloroethylene	**9.4**			U	5	5
cis-1,3-Dichloropropene		U		U	5	0.4
Cymene		U		U	5	5
Dibromochloromethane		U		U	5	50
Dibromomethane		U		U	5	5
Dichlorodifluoromethane		U		U	5	5
Ethylbenzene		U		U	5	5
Hexachlorobutadiene		U		U	5	0.5
Iodomethane (Methyl Iodide)		U		UJ	5	5
Isopropylbenzene (Cumene)		U		U	5	5
Methyl Ethyl Ketone (2-Butanone)		U		U	5	50
Methyl Isobutyl Ketone		U		U	5	--
Methylene Chloride		U		U	5	5
m&p-Xylene		U		U	5	5
Naphthalene		U		U	5	10
n-Butylbenzene		U		U	5	5
n-Propylbenzene		U		U	5	5
o-Xylene (1,2-Dimethylbenzene)		U		U	5	5
sec-Butylbenzene		U		U	5	5
Styrene		U		U	5	5
t-Butylbenzene		U		U	5	5
tert-Butyl Methyl Ether		U		U	5	10
Tetrachloroethylene (PCE)	1.5	J		U	5	5
Toluene		U		U	5	5
trans-1,2-Dichloroethene		U		U	5	5
trans-1,3-Dichloropropene		U		U	5	0.4
Trichloroethylene (TCE)	**12**			U	5	5
Trichlorofluoromethane		U		U	5	5
Vinyl Acetate		U		U	5	--
Vinyl Chloride		U		U	5	2
Xylenes, Total		U		U	5	5
Total Volatile Organic Compounds	22.9		0		--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
Bold : Exceeds Class GA Groundwater Standard/ Guidance Value

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	UJ	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	1.2 J	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	U	U	U	5	5
Carbon Disulfide	U	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	U	U	U	U	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	5	5
n-Propylbenzene	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	5	5
sec-Butylbenzene	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	1.1 J	5	5
Toluene	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	U	U	U	U	1.8 J	5	5
Trichlorofluoromethane	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	5	5
Total Volatile Organic Compounds	1.2	0	0	0	0	2.9	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-07		MW-07		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013		4/22/2014			
Dilution Factor	1		1			
Units	ug/l		ug/l			
1,1,1,2-Tetrachloroethane		U		U	5	5
1,1,1-Trichloroethane		U		U	5	5
1,1,2,2-Tetrachloroethane		U		U	5	5
1,1,2-Trichloroethane		U		U	5	1
1,1-Dichloroethane		U		U	5	5
1,1-Dichloroethene		U		U	5	5
1,1-Dichloropropene		U		U	5	5
1,2,3-Trichlorobenzene		U		U	5	5
1,2,3-Trichloropropane		U		U	5	0.04
1,2,4-Trichlorobenzene		U		U	5	5
1,2,4-Trimethylbenzene		U		U	5	5
1,2-Dibromo-3-chloropropane		U		U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)		U		U	5	0.0006
1,2-Dichlorobenzene		U		U	5	3
1,2-Dichloroethane		U		U	5	0.6
1,2-Dichloropropane		U		U	5	1
1,3,5-Trimethylbenzene (Mesitylene)		U		U	5	5
1,3-Dichlorobenzene		U		U	5	3
1,3-Dichloropropane		U		U	5	5
1,4-Dichlorobenzene		U		U	5	3
2,2-Dichloropropane		U		U	5	5
2-Chlorotoluene		U		U	5	50
2-Hexanone		U		U	5	50
4-Chlorotoluene		U		U	5	5
Acetone		U		U	5	50
Benzene		U		U	5	1
Bromobenzene		U		U	5	5
Bromochloromethane		U		U	5	5
Bromodichloromethane		U		U	5	50
Bromoform		U		U	5	50
Bromomethane		U		U	5	5
Carbon Disulfide		U		U	5	60
Carbon Tetrachloride		U		U	5	5
Chlorobenzene		U		U	5	5
Chloroethane		U		U	5	5
Chloroform		U		U	5	7
Chloromethane		U		U	5	5
cis-1,2-Dichloroethylene	0.52	J		U	5	5
cis-1,3-Dichloropropene		U		U	5	0.4
Cymene		U		U	5	5
Dibromochloromethane		U		U	5	50
Dibromomethane		U		U	5	5
Dichlorodifluoromethane		U		U	5	5
Ethylbenzene		U		U	5	5
Hexachlorobutadiene		U		U	5	0.5
Iodomethane (Methyl Iodide)		U		UJ	5	5
Isopropylbenzene (Cumene)		U		U	5	5
Methyl Ethyl Ketone (2-Butanone)		U		U	5	50
Methyl Isobutyl Ketone		U		U	5	--
Methylene Chloride		U		U	5	5
m&p-Xylene		U		U	5	5
Naphthalene		U		U	5	10
n-Butylbenzene		U		U	5	5
n-Propylbenzene		U		U	5	5
o-Xylene (1,2-Dimethylbenzene)		U		U	5	5
sec-Butylbenzene		U		U	5	5
Styrene		U		U	5	5
t-Butylbenzene		U		U	5	5
tert-Butyl Methyl Ether		U		U	5	10
Tetrachloroethylene (PCE)	0.7	J		U	5	5
Toluene		U		U	5	5
trans-1,2-Dichloroethene		U		U	5	5
trans-1,3-Dichloropropene		U		U	5	0.4
Trichloroethylene (TCE)	2.5	J		U	5	5
Trichlorofluoromethane		U	4.7	J	5	5
Vinyl Acetate		U		U	5	--
Vinyl Chloride		U		U	5	2
Xylenes, Total		U		U	5	5
Total Volatile Organic Compounds	3.72		4.7		--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-08	MW-08	MW-08	MW-08	MW-08	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/26/2011	9/28/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	3 J	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	1.1 J	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	4.8 J	0.79 J	0.94 J	**5.3**	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	1.4 J	U	U	5	5
Naphthalene	U	U	0.98 J	UJ	U	5	10
n-Butylbenzene	U	U	0.67 J	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	1.1 J	**6.7**	0.93 J	1.2 J	**6.2**	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	1.4 J	U	U	5	5
Total Volatile Organic Compounds	1.1	11.5	10.27	2.14	11.5	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
Bold : Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-09	MW-09	MW-09	MW-09	MW-09	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	2.4 J	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U*	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	7	1.6 J	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	**13**	3.7 J	3.8 J	0.68 J	1.2 J	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	5	10
n-Butylbenzene	U	U	U	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	**8.1**	**7.1**	**10**	0.89	U	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	**45**	**16**	**21**	3	5 J	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	5	5
Total Volatile Organic Compounds	68.5	26.8	41.8	6.17	6.2	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
: Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-1
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Volatile Organic Compounds

Sample ID	MW-10	MW-10	MW-10	MW-10	MW-10	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/26/2011	9/27/2011	4/12/2012	9/11/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	U	5	5
2-Chlorotoluene	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	5	1
Bromobenzene	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	5	5
Carbon Disulfide	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	**6.7**	2.2 J	1.1 J	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	5	10
n-Butylbenzene	U	U	U	U	U	5	5
n-Propylbenzene	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	5	5
sec-Butylbenzene	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	1.6 J	U	0.68 J	5	5
Toluene	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	2.9 J	1 J	**11**	3.1 J	2.7 J	5	5
Trichlorofluoromethane	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	5	5
Total Volatile Organic Compounds	2.9	1	19.3	5.3	4.48	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
D: Result taken from reanalysis at a secondary dilution.
UJ: Not detected, value estimated due to validation criteria.

Notes:
ug/l : Micrograms per liter
-- : Not established
bold : Exceeds Class GA Groundwater Standard/ Guidance Value

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

APPENDIX A-2

MONITORING WELL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/7/2012	4/5/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	U	10	5
Carbazole	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	U	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	10	5
Hexachloroethane	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	10	1
Phenanthrene	U	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	U	10	1
Pyrene	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-01	MW-01	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013	4/22/2014		
Dilution Factor	1	1		
Units	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	10	5
1,2-Dichlorobenzene	U	U	10	3
1,3-Dichlorobenzene	U	U	10	3
1,4-Dichlorobenzene	U	U	10	3
2,4,5-Trichlorophenol	U	U	20	1
2,4,6-Trichlorophenol	U	U	10	1
2,4-Dichlorophenol	U	U	10	5
2,4-Dimethylphenol	U	U	10	50
2,4-Dinitrophenol	U	U	20	10
2,4-Dinitrotoluene	U	U	10	5
2,6-Dinitrotoluene	U	U	10	5
2-Chloronaphthalene	U	U	10	10
2-Chlorophenol	U	U	10	1
2-Methylnaphthalene	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	10	1
2-Nitroaniline	U	U	20	5
2-Nitrophenol	U	U	10	1
3,3'-Dichlorobenzidine	U	U	10	5
3-Nitroaniline	U	U	20	5
4,6-Dinitro-2-methylphenol	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	10	--
4-Chloro-3-methylphenol	U	U	10	1
4-Chloroaniline	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	10	1
4-Nitroaniline	U	U	20	5
4-Nitrophenol	U	U	20	1
Acenaphthene	U	U	10	20
Acenaphthylene	U	U	10	--
Anthracene	U	U	10	50
Benzo(a)anthracene	U	U	10	0.002
Benzo(a)pyrene	U	U	10	--
Benzo(b)fluoranthene	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	10	--
Benzo(k)fluoranthene	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	10	5
Carbazole	U	U	10	--
Chrysene	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	10	--
Dibenzofuran	U	U	10	--
Diethyl Phthalate	U	U	10	50
Dimethyl Phthalate	U	U	10	50
Di-n-Butyl Phthalate	U	U	10	50
Di-n-Octylphthalate	U	U	10	50
Fluoranthene	U	U	10	50
Fluorene	U	U	10	50
Hexachlorobenzene	U	U	10	0.04
Hexachlorobutadiene	U	U	10	0.5
Hexachlorocyclopentadiene	U	U	10	5
Hexachloroethane	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	10	0.002
Isophorone	U	U	10	50
Naphthalene	U	U	10	10
Nitrobenzene	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	10	--
N-Nitrosodiphenylamine	U	U	20	50
Pentachlorophenol	U	U	10	1
Phenanthrene	U	U	10	50
Phenol	U	U	10	1
Pyrene	U	U	10	50
Total Semivolatile Organic Compounds	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

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Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-03	MW-03	MW-03	MW-03	MW-03	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	UJ	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	UJ	U	U	10	0.002
Benzo(a)pyrene	U	U	UJ	U	U	10	--
Benzo(b)fluoranthene	U	U	UJ	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	UJ	U	U	10	--
Benzo(k)fluoranthene	U	U	UJ	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	UJ	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	UJ	U	U*	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	UJ	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	UJ	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	10	50
Di-n-Octylphthalate	U	U	UJ	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	UJ	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-03R	MW-03R	MW-03R	MW-03R	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/6/2012	4/4/2013	9/5/2013	4/22/2014		
Dilution Factor	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	10	50
2,4-Dinitrophenol	UJ	U	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	10	1
2-Methylnaphthalene	UJ	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	UJ	U	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	20	1
Acenaphthene	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	10	--
Anthracene	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U*	U	U	U	10	5
Carbazole	U	U	U	U	10	--
Chrysene	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	10	50
Di-n-Butyl Phthalate	U*	U	U	U	10	50
Di-n-Octylphthalate	U	U	U	U	10	50
Fluoranthene	U	U	U	U	10	50
Fluorene	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	UJ	U	U	U	10	5
Hexachloroethane	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	10	0.002
Isophorone	U	U	U	U	10	50
Naphthalene	U	U	U	U	10	10
Nitrobenzene	UJ	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	20	50
Pentachlorophenol	UJ	U	U	U	10	1
Phenanthrene	U	U	U	U	10	50
Phenol	U	U	U	U	10	1
Pyrene	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-04	MW-04	MW-04	MW-04	MW-04	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/13/2012	9/7/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	10	50
Di-n-Octylphthalate	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-04R	MW-04R	MW-04R	MW-04R	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2012	4/4/2013	9/5/2013	4/22/2014		
Dilution Factor	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	10	50
2,4-Dinitrophenol	UJ	U	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	UJ	U	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	20	1
Acenaphthene	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	10	--
Anthracene	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	UJ	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U*	U	U	U	10	5
Carbazole	U	U	U	U	10	--
Chrysene	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	1.3 J	UB	10	50
Di-n-Octylphthalate	U	U	U	U	10	50
Fluoranthene	U	U	U	U	10	50
Fluorene	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	UJ	U	U	U	10	5
Hexachloroethane	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	10	0.002
Isophorone	U	U	U	U	10	50
Naphthalene	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	20	50
Pentachlorophenol	UJ	U	U	U	10	1
Phenanthrene	U	U	U	U	10	50
Phenol	U	U	U	U	10	1
Pyrene	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	1.3	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-05	MW-05	MW-05	MW-05	MW-05	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/5/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	UJ	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U	10	50
Di-n-Octylphthalate	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	UJ	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	U	10	5
Carbazole	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U	U	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	10	5
Hexachloroethane	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	10	1
Phenanthrene	U	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-06	MW-06	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013	4/22/2014		
Dilution Factor	1	1		
Units	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	10	5
1,2-Dichlorobenzene	U	U	10	3
1,3-Dichlorobenzene	U	U	10	3
1,4-Dichlorobenzene	U	U	10	3
2,4,5-Trichlorophenol	U	U	20	1
2,4,6-Trichlorophenol	U	U	10	1
2,4-Dichlorophenol	U	U	10	5
2,4-Dimethylphenol	U	U	10	50
2,4-Dinitrophenol	U	U	20	10
2,4-Dinitrotoluene	U	U	10	5
2,6-Dinitrotoluene	U	U	10	5
2-Chloronaphthalene	U	U	10	10
2-Chlorophenol	U	U	10	1
2-Methylnaphthalene	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	10	1
2-Nitroaniline	U	U	20	5
2-Nitrophenol	U	U	10	1
3,3'-Dichlorobenzidine	U	U	10	5
3-Nitroaniline	U	U	20	5
4,6-Dinitro-2-methylphenol	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	10	--
4-Chloro-3-methylphenol	U	U	10	1
4-Chloroaniline	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	10	1
4-Nitroaniline	U	U	20	5
4-Nitrophenol	U	U	20	1
Acenaphthene	U	U	10	20
Acenaphthylene	U	U	10	--
Anthracene	U	U	10	50
Benzo(a)anthracene	U	U	10	0.002
Benzo(a)pyrene	U	U	10	--
Benzo(b)fluoranthene	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	10	--
Benzo(k)fluoranthene	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	10	5
Carbazole	U	U	10	--
Chrysene	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	10	--
Dibenzofuran	U	U	10	--
Diethyl Phthalate	U	U	10	50
Dimethyl Phthalate	U	U	10	50
Di-n-Butyl Phthalate	1.1 J	UB	10	50
Di-n-Octylphthalate	U	U	10	50
Fluoranthene	U	U	10	50
Fluorene	U	U	10	50
Hexachlorobenzene	U	U	10	0.04
Hexachlorobutadiene	U	U	10	0.5
Hexachlorocyclopentadiene	U	U	10	5
Hexachloroethane	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	10	0.002
Isophorone	U	U	10	50
Naphthalene	U	U	10	10
Nitrobenzene	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	10	--
N-Nitrosodiphenylamine	U	U	20	50
Pentachlorophenol	U	U	10	1
Phenanthrene	U	U	10	50
Phenol	U	U	10	1
Pyrene	U	U	10	50
Total Semivolatile Organic Compounds	1.1	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013		
Dilution Factor	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U	U	10	5
Carbazole	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	U	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	10	5
Hexachloroethane	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	10	1
Phenanthrene	U	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-07	MW-07	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2013	4/22/2014		
Dilution Factor	1	1		
Units	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	10	5
1,2-Dichlorobenzene	U	U	10	3
1,3-Dichlorobenzene	U	U	10	3
1,4-Dichlorobenzene	U	U	10	3
2,4,5-Trichlorophenol	U	U	20	1
2,4,6-Trichlorophenol	U	U	10	1
2,4-Dichlorophenol	U	U	10	5
2,4-Dimethylphenol	U	U	10	50
2,4-Dinitrophenol	U	U	20	10
2,4-Dinitrotoluene	U	U	10	5
2,6-Dinitrotoluene	U	U	10	5
2-Chloronaphthalene	U	U	10	10
2-Chlorophenol	U	U	10	1
2-Methylnaphthalene	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	10	1
2-Nitroaniline	U	U	20	5
2-Nitrophenol	U	U	10	1
3,3'-Dichlorobenzidine	U	U	10	5
3-Nitroaniline	U	U	20	5
4,6-Dinitro-2-methylphenol	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	10	--
4-Chloro-3-methylphenol	U	U	10	1
4-Chloroaniline	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	10	1
4-Nitroaniline	U	U	20	5
4-Nitrophenol	U	U	20	1
Acenaphthene	U	U	10	20
Acenaphthylene	U	U	10	--
Anthracene	U	U	10	50
Benzo(a)anthracene	U	U	10	0.002
Benzo(a)pyrene	U	U	10	--
Benzo(b)fluoranthene	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	10	--
Benzo(k)fluoranthene	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	10	5
Carbazole	U	U	10	--
Chrysene	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	10	--
Dibenzofuran	U	U	10	--
Diethyl Phthalate	U	U	10	50
Dimethyl Phthalate	U	U	10	50
Di-n-Butyl Phthalate	1.2 J	UB	10	50
Di-n-Octylphthalate	U	U	10	50
Fluoranthene	U	U	10	50
Fluorene	U	U	10	50
Hexachlorobenzene	U	U	10	0.04
Hexachlorobutadiene	U	U	10	0.5
Hexachlorocyclopentadiene	U	U	10	5
Hexachloroethane	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	10	0.002
Isophorone	U	U	10	50
Naphthalene	U	U	10	10
Nitrobenzene	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	10	--
N-Nitrosodiphenylamine	U	U	20	50
Pentachlorophenol	U	U	10	1
Phenanthrene	U	U	10	50
Phenol	U	U	10	1
Pyrene	U	U	10	50
Total Semivolatile Organic Compounds	1.2	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-08	MW-08	MW-08	MW-08	MW-08	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/26/2011	9/28/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	1.9 J	U*	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	10	50
Di-n-Octylphthalate	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	1.9	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
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Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-09	MW-09	MW-09	MW-09	MW-09	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	10	50
Di-n-Octylphthalate	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

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Table A-2
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Semivolatile Organic Compounds

Sample ID	MW-10	MW-10	MW-10	MW-10	MW-10	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/26/2011	9/27/2011	4/12/2012	9/11/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
1,2,4-Trichlorobenzene	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	2.1 J	10	5
Carbazole	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	1.5 J	10	50
Di-n-Octylphthalate	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	U	10	5
Hexachloroethane	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	10	0.4
N-Nitroso-di-n-propylamine	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	U	10	1
Phenanthrene	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	3.6	--	--

Qualifiers:
U: Not detected
J: Estimated value or limit
UJ: Not detected, value estimated due to validation criteria
U*or UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l: Micrograms per liter
--: Not established

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
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APPENDIX A-3

MONITORING WELL SAMPLE RESULTS
TARGET ANALYTE LIST METALS AND ALKALINITY

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/7/2012	4/5/2013	9/5/2013	4/22/2014		
Dilution Factor	1	1	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
Aluminum	U	--	U	U	U	U	U	U	200	--
Antimony	U	U	U	U	U	U	U	U	20	3 ST
Arsenic	U	U	U	U	7.4 B	U	U	U	20	25 ST
Barium	21.4 B	--	24.5 B	28.9 B	25.5 B	37.6 B	UB	25.2 B	200	1,000 ST
Beryllium	U	U	U	U	U	U	U	U	5	3 GV
Cadmium	U	U	U	U	U	U	U	U	5	5 ST
Calcium	15,900	--	31,700	30,200	52,600	51,100	41,800	46,000	800	--
Chromium, Total	U	2.1 B	U	1.4 B	1.9 B	2.8 B	3.4 B	1.0 B	20	50 ST
Cobalt	U	--	U	U	0.91 B	U	U	U	50	--
Copper	U	U	U	U	4.4 B	U	U	U	30	200 ST
Iron	U	U	UJ	77.3 B	U*	33.8 BJ	U	102 B	200	300 ST
Lead	U	U	U	U	U	U	U	U	10	25 ST
Magnesium	1,490	--	2,380	2,750	5,360	3,860	3,450	3,720	500	35,000 GV
Manganese	51.1	--	33.0 B	**700**	**2,260**	**894**	**798**	**2,650**	50	300 ST
Mercury	U	U	U	U	UB	U	U	U	0.20	0.7 ST
Nickel	U	U	U	U	0.87 B	1.3 B	U	U	50	100 ST
Potassium	28,800	--	20,000	16,000	15,000	20,800	19,600 J	9,430	100	--
Selenium	U	U	U	U	U	U	U	U	30	10 ST
Silver	U	U	U	U	U	U	U	U	30	50 ST
Sodium	**25,900**	--	**28,000**	**34,700**	**29,500**	**60,200**	**27,300**	**78,000**	100	20,000 ST
Thallium	U	U	U	U	U	U	U	U	20	0.5 GV
Vanadium	U	--	U	U	U	U	U	U	50	--
Zinc	11.0 B	U	U	U*	U	U	U	U	50	2,000 GV
Total Iron and Manganese	51.1	U	33	**777.3**	**2,260**	**927.8**	**798**	**2,752**	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	76	--	--	92	140	110	130	140	--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
: Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
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Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-03		MW-03		MW-03		MW-03		MW-03		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010		4/25/2011		9/27/2011		4/13/2012		9/6/2012			
Dilution Factor	1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum		U	--			U		U		U	200	--
Antimony		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		U		U	20	25 ST
Barium	822		--		174	B	215		85.6	B	200	1,000 ST
Beryllium		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U	5	5 ST
Calcium	53,000		--		31,100		39,400		24,400		800	--
Chromium, Total	3.4	B	**66.5**		34.4		14.1	B	14.1	B	20	50 ST
Cobalt		U	--		1.2	B		U		U	50	--
Copper	15.1	B		U	21.7	B	15.6	B	9.0	B	30	200 ST
Iron		U	36.4	B	**1,290**	**J**	**320**			U*	200	300 ST
Lead		U		U		U		U		U	10	25 ST
Magnesium	5,340		--		2,940		4,540		2,790		500	35,000 GV
Manganese	295		--		247		131		31.8	B	50	300 ST
Mercury		U		U		U		U		U*	0.20	0.7 ST
Nickel	8.6	B		U	12.3	B	6.7	B	4.0	B	50	100 ST
Potassium	8,520		--		5,260		9,870		4,730		100	--
Selenium		U		U		U		U		U	30	10 ST
Silver		U		U		U		U		U	30	50 ST
Sodium	**25,900**		--		10,500		**42,200**		15,100		100	20,000 ST
Thallium		U		U		U		U		U	20	0.5 GV
Vanadium	2.6	B		U		U	1.8	B	1.8	B	50	--
Zinc	20.0	B		U		U		UB	11.6	B	50	2,000 GV
Total Iron and Manganese	295		36.4		**1,537**		451		31.8		--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	130		--		73		100		59		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
: Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-03R		MW-03R		MW-03R		MW-03R					CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/6/2012		4/4/2013		9/5/2013		4/22/2014						
Dilution Factor	1		1		1		1						
Units	ug/l		ug/l		ug/l		ug/l						
Aluminum		U	1,080		391			U				200	--
Antimony		U		U		U		U				20	3 ST
Arsenic		U		U		U		U				20	25 ST
Barium	25.8	B	57.6	B	55.7	B	44.8	B				200	1,000 ST
Beryllium		U		U		U		U				5	3 GV
Cadmium		U		U		U		U				5	5 ST
Calcium	19,400		32,800		41,400		38,200					800	--
Chromium, Total	26.6		32.4		**77.1**		10.0	B				20	50 ST
Cobalt		U	1.1	B		U		U				50	--
Copper		U	9.9	B	13.3	B		U				30	200 ST
Iron		UB	**2,070**	**J**	**558**		154	B				200	300 ST
Lead		U		U	4.4	B		U				10	25 ST
Magnesium	1,710		3,490		3,680		3,510					500	35,000 GV
Manganese		U	33.1	B	15	B	22.5	B				50	300 ST
Mercury		UB		U		U		U				0.20	0.7 ST
Nickel	1.4	B	4.4	B		UB		UB				50	100 ST
Potassium	8,280		12,100		14,300	J	16,000					100	--
Selenium		U		U		U		U				30	10 ST
Silver		U		U		U		U				30	50 ST
Sodium	16,400		**24,700**		**71,700**		**29,300**					100	20,000 ST
Thallium		U		U		U		U				20	0.5 GV
Vanadium		U	2.3	B	1.9	B		U				50	--
Zinc		U	8.0	B	11.8	B		U				50	2,000 GV
Total Iron and Manganese		U	**2,103.1**		**573**		176.5					--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	59		81		140		160					--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-04		MW-04		MW-04		MW-04		MW-04		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010		4/26/2011		9/28/2011		4/13/2012		9/7/2012			
Dilution Factor	1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum		U	--			U		U		U	200	--
Antimony		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		U		U	20	25 ST
Barium	12.3	B	--		23.6	B	23.9	B	18.8	B	200	1,000 ST
Beryllium		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U	5	5 ST
Calcium	45,700		--		46,600		30,600		40,300		800	--
Chromium, Total	27.3		4.2	B		U	5.3	B	5.7	B	20	50 ST
Cobalt	1.2	B	--			U		U	1.5	B	50	--
Copper	33.7			U	25.9	B	19.9	B	22.0	B	30	200 ST
Iron		U	90.1	B		UJ	90.3	B		U	200	300 ST
Lead		U		U		U		U		U	10	25 ST
Magnesium	3,720		--		3,810		2,570		3,630		500	35,000 GV
Manganese		U	--			U	10.2	B		U	50	300 ST
Mercury		U		U		U		U		UB	0.20	0.7 ST
Nickel	3.5	B		U		U	2.7	B	2.9	B	50	100 ST
Potassium	6,940		--		17,700		20,500		12,700		100	--
Selenium		U		U		U		U		U	30	10 ST
Silver		U		U		U		U		U	30	50 ST
Sodium	**27,100**		--		**27,800**		**46,300**		**32,800**		100	20,000 ST
Thallium		U		U		U		U		U	20	0.5 GV
Vanadium		U	--			U		U		U	50	--
Zinc	14.5	B		U		U		UB	30.9	B	50	2,000 GV
Total Iron and Manganese		U	90.1			U	100.5			U	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	130		--		95		100		96		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
: Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-04R		MW-04R		MW-04R		MW-04R					CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	9/5/2012		4/4/2013		9/5/2013		4/22/2014						
Dilution Factor	1		1		1		1						
Units	ug/l		ug/l		ug/l		ug/l						
Aluminum		U	486		157	B	278					200	--
Antimony		U		U		U		U				20	3 ST
Arsenic	6.6	B	4.3	B		U		U				20	25 ST
Barium	22.7	B	24.7	B		UB	23.7	B				200	1,000 ST
Beryllium		U		U		U	0.30	B				5	3 GV
Cadmium		U		U		U		U				5	5 ST
Calcium	45,500		40,700		34,400		50,900					800	--
Chromium, Total	4.6	B	4.1	B	**2,720**		32.0					20	50 ST
Cobalt		U	1.3	B		UB		UB				50	--
Copper	14.3	B	64.0		44.4		43.8					30	200 ST
Iron	91.5	B	**999**	**J**	**309**		**839**					200	300 ST
Lead		U		U		U		U				10	25 ST
Magnesium	3,670		3,610		2,870		4,520					500	35,000 GV
Manganese		U	41.6	B	55.3		152					50	300 ST
Mercury		UB		U	0.12	B		U				0.20	0.7 ST
Nickel	1.8	B	4.8	B		UB		UB				50	100 ST
Potassium	18,800		16,900		13,600	J	14,600					100	--
Selenium		U		U		U		U				30	10 ST
Silver		U		U		U		U				30	50 ST
Sodium	**42,000**		**29,200**		**40,900**		**28,800**					100	20,000 ST
Thallium		U		U		U		U				20	0.5 GV
Vanadium		U		U	3.6	B		UB				50	--
Zinc	10.2	B	11.0	B	12.9	B		U				50	2,000 GV
Total Iron and Manganese	91.5		**1,040.6**		364.3		**991**					--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	110		85		100		130					--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
: Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-05	MW-05	MW-05	MW-05	MW-05	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/5/2012		
Dilution Factor	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
Aluminum	U	--	U	91.5 B	U	200	--
Antimony	U	U	U	U	U	20	3 ST
Arsenic	U	U	U	U	U	20	25 ST
Barium	17.1 B	--	20.9 B	34.0 B	22.6 B	200	1,000 ST
Beryllium	U	U	U	U	U	5	3 GV
Cadmium	U	U	U	U	U	5	5 ST
Calcium	45,400	--	46,700	47,100	45,900	800	--
Chromium, Total	U	U	U	U	2.5 B	20	50 ST
Cobalt	U	--	U	U	U	50	--
Copper	U	U	U	4.1 B	U	30	200 ST
Iron	U	U	UJ	U	U	200	300 ST
Lead	U	U	U	U	U	10	25 ST
Magnesium	3,740	--	3,610	3,390	3,530	500	35,000 GV
Manganese	**522**	--	149	**549 J**	128	50	300 ST
Mercury	U	U	U	U	U	0.20	0.7 ST
Nickel	U	U	U	1.0 B	U	50	100 ST
Potassium	11,300	--	16,500	34,100	22,600	100	--
Selenium	U	U	U	U	U	30	10 ST
Silver	U	U	U	U	U	30	50 ST
Sodium	15,600	--	**21,800**	**29,300**	17,000	100	20,000 ST
Thallium	U	U	U	U	U	20	0.5 GV
Vanadium	U	--	U	U	U	50	--
Zinc	11.9 B	U	U	UB	U	50	2,000 GV
Total Iron and Manganese	**522**	U	149	**549**	128	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	--	--	130	150	130	--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-06		MW-06		MW-06		MW-06		MW-06		MW-06		MW-06		MW-06		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010		4/25/2011		9/27/2011		4/12/2012		9/5/2012		4/4/2013		9/5/2013		4/22/2014			
Dilution Factor	1		1		1		1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum		U	--			U	174	B	123	B		U	214			U	200	--
Antimony		U		U		U		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		UB		U		U		U		U	20	25 ST
Barium	33.8	B	--		38.7	B	40.6	B	35.4	B	27.7	B	62.5	B	31.0	B	200	1,000 ST
Beryllium		U		U		U		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U		U		U		U	5	5 ST
Calcium	36,200		--		57,300		51,400		34,800		54,900		81,500		62,900		800	--
Chromium, Total		U		U		U	1.3	B	2.3	B	0.77	B	1.9	B	0.86	B	20	50 ST
Cobalt		U	--		1.4	B	0.72	B		UB	1.3	B		UB		UB	50	--
Copper		U		U		U	4.8	B	4.3	B	8.8	B	15.6	B	4.4	B	30	200 ST
Iron	73.4	B	119	B		UJ	**519**		247		**584**	**J**	**615**		198	B	200	300 ST
Lead		U		U		U		U		U		U	4.3	B		U	10	25 ST
Magnesium	2,610		--		4,290		4,220		2,540		5,570		7,280		6,780		500	35,000 GV
Manganese		U	--		24.0	B	13.5	B	10.6	B		U	22.9	B	11.2	B	50	300 ST
Mercury		U		U		U	0.074	B		UB	0.037	B	0.09	B		U	0.20	0.7 ST
Nickel		U		U		U	0.86	B	1.3	B	4.2	B		UB		UB	50	100 ST
Potassium	19,900		--		19,400		22,800		29,100		13,100		23,200	J	11,200		100	--
Selenium		U		U		U		U		U		U		U		U	30	10 ST
Silver		U		U		U		U		U		U		U		U	30	50 ST
Sodium	**24,200**		--		**33,500**		**36,800**		**29,600**		**27,800**		**70,700**		**30,600**		100	20,000 ST
Thallium		U		U		U		U		U		U		U		U	20	0.5 GV
Vanadium	5.2	B	--		4.8	B	8.4	B	8.0	B	4.0	B	9.7	B		UB	50	--
Zinc	12.5	B		U		U		U	11.5	B		U	9.2	B		U	50	2,000 GV
Total Iron and Manganese	73.4		119		24		**532.5**		257.6		**584**		**637.9**		209.2		--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	120		--		130		150		120		91		150		150		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
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mg/l : Milligrams per liter
-- : Not analyzed or established
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DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013	9/5/2013	4/22/2014		
Dilution Factor	1	1	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
Aluminum	U	--	U	U	U	1,050	115 B	U	200	--
Antimony	U	U	U	U	U	U	U	U	20	3 ST
Arsenic	U	U	U	U	4.5 B	4.8 B	U	U	20	25 ST
Barium	22.9 B	--	28.0 B	26.9 B	25.2 B	38.8 B	UB	37.7 B	200	1,000 ST
Beryllium	U	U	U	U	U	0.40 B	U	U	5	3 GV
Cadmium	U	U	U	U	U	U	U	U	5	5 ST
Calcium	37,700	--	49,100	44,100	51,100	49,600	74,900	58,900	800	--
Chromium, Total	U	2.7 B	U	U	U	2.4 B	30.4 B	U	20	50 ST
Cobalt	0.99 B	--	2.3 B	U	UB	4.9 B	UB	U	50	--
Copper	U	U	4.7 B	U	U	7.1 B	8.5 B	U	30	200 ST
Iron	33.5 B	**1,190**	UJ	93.6 B	59.3 B	**1,100 J**	**351 J**	104 B	200	300 ST
Lead	U	20.3	U	U	U	4.4 B	U	U	10	25 ST
Magnesium	4,320	--	4,650	3,240	3,310	5,550	6,900	4,660	500	35,000 GV
Manganese	**930**	--	**666**	**357**	134	**413**	**397**	130	50	300 ST
Mercury	U	U	U	U	UB	U	U	U	0.20	0.7 ST
Nickel	1.5 B	U	U	U	0.89 B	6.8 B	UB	UB	50	100 ST
Potassium	7,770	--	12,600	25,000	26,000	17,400	20,900 B	33,500	100	--
Selenium	U	U	U	U	U	**14.0 B**	**12.3 B**	U	30	10 ST
Silver	U	14.9 B	U	U	U	U	U	U	30	50 ST
Sodium	**21,100**	--	**33,400**	**23,100**	**20,300**	**27,500**	**39,900**	**30,900**	100	20,000 ST
Thallium	U	U	U	U	U	U	U	U	20	0.5 GV
Vanadium	U	--	U	U	U	5.5 B	U	U	50	--
Zinc	11.2 B	U	U	UB	19.1 B	11.7 B	5.9 B	U	50	2,000 GV
Total Iron and Manganese	**963.5**	**1,190**	**666**	450.6	193.3	**1,513**	**748**	234	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	--	--	130	140	150	98	150	160	--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
Bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

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Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-08		MW-08		MW-08		MW-08		MW-08		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010		4/26/2011		9/28/2011		4/13/2012		9/6/2012			
Dilution Factor	1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum	183	B	--		475		1,550		100	B	200	--
Antimony		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		UB		U	20	25 ST
Barium	214		--		135	B	95.3	B	49.1	B	200	1,000 ST
Beryllium		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U	5	5 ST
Calcium	25,100		--		38,500		33,100		23,600		800	--
Chromium, Total	1.3	B	3.0	B		U	8.2	B	2.5	B	20	50 ST
Cobalt		U	--		1.2	B	1.7	B		U	50	--
Copper	12.2	B		U	17.0	B	29.0	B		U	30	200 ST
Iron	**330**		**668**		**1,480**	**J**	**2,550**		238		200	300 ST
Lead		U		U	5.5	B	15.7			U	10	25 ST
Magnesium	2,830		--		3,430		3,930		2,300		500	35,000 GV
Manganese	93.1		--		93.4		35.3	B	11.5	B	50	300 ST
Mercury		U	0.077	B	0.51		0.31			UB	0.20	0.7 ST
Nickel	2.1	B		U		U	5.6	B	1.0	B	50	100 ST
Potassium	16,600		--		12,900		21,800		10,200		100	--
Selenium		U		U		U		U		U	30	10 ST
Silver		U		U		U	7.9	B		U	30	50 ST
Sodium	**22,700**		--		16,200		**30,800**		10,000		100	20,000 ST
Thallium		U		U		U		U		U	20	0.5 GV
Vanadium	1.9	B	--		3.2	B	7.4	B	2.0	B	50	--
Zinc	40.5	B		U	66.8		161		7.2	B	50	2,000 GV
Total Iron and Manganese	423.1		**668**		**1,573.4**		**2,585.3**		249.5		--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	--		--		110		110		52		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

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Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-09		MW-09		MW-09		MW-09		MW-09		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/19/2010		4/25/2011		9/27/2011		4/13/2012		9/6/2012			
Dilution Factor	1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum		U	--			U	553			U	200	--
Antimony		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		U		U	20	25 ST
Barium	36.7	B	--		29.8	B	35.5	B	28.6	B	200	1,000 ST
Beryllium		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U	5	5 ST
Calcium	44,400		--		31,800		31,500		12,400		800	--
Chromium, Total	10.7	B	5.6	B		U	6.8	B	11.8	B	20	50 ST
Cobalt		U	--		0.96	B	0.80	B		U	50	--
Copper	4.3	B		U	24.2	B	14.6	B	8.6	B	30	200 ST
Iron	32.3	B	54.2	B		UJ	**852**			UB	200	300 ST
Lead		U		U		U	6.2	B		U	10	25 ST
Magnesium	4,170		--		3,020		3,260		1,770		500	35,000 GV
Manganese		U	--		12.1	B	14.4	B		U	50	300 ST
Mercury		U		U		U	0.041	B		UB	0.20	0.7 ST
Nickel	5.5	B		U	12.7	B	14.6	B	6.2	B	50	100 ST
Potassium	11,100		--		11,900		13,600		4,550		100	--
Selenium		U		U		U		U		U	30	10 ST
Silver		U		U		U		U		U	30	50 ST
Sodium	**34,200**		--		**34,300**		**46,400**		6,940		100	20,000 ST
Thallium		U		U		U		U		U	20	0.5 GV
Vanadium		U	--			U	2.2	B		U	50	--
Zinc	19.7	B		U		U	34.3	B	7.2	B	50	2,000 GV
Total Iron and Manganese	32.3		54.2		12.1		**866.4**			U	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	--		--		--		100		36		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

Table A-3
PSC - Chemical Pollution Control, LLC of New York
Semiannual Groundwater Monitoring Program
Groundwater Sample Results
Metals and Alkalinity

Sample ID	MW-10		MW-10		MW-10		MW-10		MW-10		CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
Date Collected	8/18/2010		4/26/2011		9/27/2011		4/12/2012		9/11/2012			
Dilution Factor	1		1		1		1		1			
Units	ug/l		ug/l		ug/l		ug/l		ug/l			
Aluminum		U	--			U	333			U	200	--
Antimony		U		U		U		U		U	20	3 ST
Arsenic		U		U		U		U		U	20	25 ST
Barium	28.9	B	--		32.5	B	43.6	B	32.8	B	200	1,000 ST
Beryllium		U		U		U		U		U	5	3 GV
Cadmium		U		U		U		U		U	5	5 ST
Calcium	35,900		--		43,800		58,700		30,800		800	--
Chromium, Total	1.1	B	0.82	B		U	3.6	B	0.64	B	20	50 ST
Cobalt		U	--		1.4	B	1.0	B		U	50	--
Copper		U		U		U	5.7	B		U	30	200 ST
Iron	80.3	B	82.9	B		UJ	**673**		53.2	B	200	300 ST
Lead		U		U		U	4.7	B		U	10	25 ST
Magnesium	3,200		--		4,120		4,150		1,960		500	35,000 GV
Manganese	20.9	B	--		14.7	B	191		29.8	B	50	300 ST
Mercury		U		U		U	0.033	B		U	0.20	0.7 ST
Nickel	1.5	B		U		U	3.2	B		U	50	100 ST
Potassium	8,940		--		16,300		26,000		34,200		100	--
Selenium		U		U		U		U		U	30	10 ST
Silver		U		U		U		U		U	30	50 ST
Sodium	15,900		--		**25,400**		**31,900**		**38,100**		100	20,000 ST
Thallium		U		U		U		U		U	20	0.5 GV
Vanadium		U	--		1.5	B	2.7	B	2.1	B	50	--
Zinc	15.5	B		U		U		UB		UB	50	2,000 GV
Total Iron and Manganese	101.2		82.9		14.7		**864**		83		--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	--		--		95		150		120		--	--

Qualifiers
U: Not detected
B: Detected between the Instrument Detection Limit (IDL) and the Contract Required Detection Limit (CRDL)
UB: Result qualified as non-detect based on validation criteria

Notes:
ug/l : Micrograms per liter
mg/l : Milligrams per liter
-- : Not analyzed or established
bold : Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

APPENDIX B-1

FIELD FORMS
FIELD OBSERVATION LOGS

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE April 22, 2014

SAMPLE ID: MW-01_4/22/14
WELL ID: MW-01
SAMPLERS: Keith Robins

Time On-site: 3:00 p.m.

Time Off-site: 4:00 p.m.

Depth of well (from top of casing)..... 17.00 ft Time:
Initial static water level (from top of casing) ..... 9.66 ft Time:

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Disp.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 7.34 ft. of water x 0.65 = 4.77 gallons

volume of water removed:
4 gal. >3 volumes: yes ____ no X purged dry? yes ____ no X

Field Tests

Volume of Purge Water (in ml)	pH	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.90	16.00	0.900	77	6.94	124
2,500 ml	6.76	14.09	0.764	26	4.17	144
5,000 ml	6.74	14.02	0.756	16	4.08	148
7,500 ml	6.70	13.40	0.749	9	4.06	148
10,000 ml	6.68	13.13	0.726	2	3.98	148
12,500 ml	6.65	13.18	0.699	0	3.74	150
15,000 ml	6.63	13.10	0.702	0	3.70	147

Sampling

Time of Sample Collection: 3:35 p.m.

Method:
- ____ Stainless steel bailer
- ____ Teflon bailer
- ____ Pos. Disp. Pump
- ____ Disposable bailer
- ____ Dedicated pump
- X Other: Disposable Bladder Pump (Low Flow)

Analyses:
- X TCL VOCs 602 ____ 503 ____ Other ____
- X TCL SVOCs
- X Target Analyte List Metals
- X Alkalinity

Observations

Weather/Temperature: Partly cloudy, mid 50s
Sample description: Clear, colorless, no odor
Free Product? yes ____ no X describe
Sheen? yes ____ no X describe
Odor? yes ____ no X describe

Comments:
Flow rate: 500 ml/min. Final DTW: 9.65'. Contained purge water in 55-gallon drum. PID= 0.0 ppm.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE April 22, 2014

SAMPLE ID: MW-03R_4/22/14
WELL ID: MW-03R
SAMPLERS: Keith Robins

Time On-site: 8:00 a.m.

Time Off-site: 9:15 a.m.

Depth of well (from top of casing)..... 20.10 ft Time:
Initial static water level (from top of casing) ..... 11.85 ft Time:

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Disp.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:
2 in. casing: 8.25 ft. of water x 0.16 = 1.3 gallons
3 in. casing: ft. of water x 0.36 = gallons
4 in. casing: ft. of water x 0.65 = gallons

volume of water removed: 3.2 gal. >3 volumes: yes no X purged dry? yes no X

Field Tests

Volume of Purge Water (in ml)	pH	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	5.59	11.30	0.430	29.3	4.58	234
2,500 ml	6.02	11.31	0.413	12.8	4.08	210
5,000 ml	6.37	11.15	0.422	1.8	3.96	192
7,500 ml	6.45	11.03	0.426	0.0	3.85	187
10,000 ml	6.46	11.11	0.429	0.0	3.72	182
12,500 ml	6.48	11.24	0.424	0.0	3.55	178

Sampling

Time of Sample Collection: 8:45 a.m.

Method:
- Stainless steel bailer
- Teflon bailer
- Pos. Disp. Pump
- Disposable bailer
- Dedicated pump
- X Other: Disposable Bladder Pump (Low Flow)

Analyses:
- X TCL VOCs 602 503 Other
- X TCL SVOCs
- X Target Analyte List Metals
- X Alkalinity

Observations

Weather/Temperature: Partly cloudy skies, mid 50s
Sample description: clear
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes no X describe

Comments:
Flow rate: 500 ml/min. Final DTW: 11.85'. Contained purge water in 55-gallon drum. PID= 0.0 ppm.
Collected MSW/MSD at well MW-03R.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE April 22, 2014

SAMPLE ID: MW-04R_4/22/14
WELL ID: MW-04R
SAMPLERS: Keith Robins

Time On-site: 10:00 a.m.
Time Off-site: 11:15 p.m.

Depth of well (from top of casing)..... 20.10 ft Time:
Initial static water level (from top of casing) ..... 11.80 ft Time:

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Disp.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:
2 in. casing: 8.3 ft. of water x 0.16 = 1.3 gallons
3 in. casing: ft. of water x 0.36 = gallons
4 in. casing: ft. of water x 0.65 = gallons

volume of water removed: 3.3 gal. >3 volumes: yes no X purged dry? yes no X

Field Tests

Volume of Purge Water (in ml)	pH	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.66	12.00	0.494	34.5	6.12	150
2,500 ml	6.61	11.16	0.481	18.7	5.00	163
5,000 ml	6.57	10.66	0.487	11.7	5.06	169
7,500 ml	6.55	10.65	0.485	0.0	5.04	172
10,000 ml	6.51	10.56	0.487	0.0	5.09	175
12,500 ml	6.48	10.53	0.487	0.0	5.10	179

Sampling

Time of Sample Collection: 10:35 a.m.

Method:
- Stainless steel bailer
- Teflon bailer
- Pos. Disp. Pump
- Disposable bailer
- Dedicated pump
- X Other: Disposable Bladder Pump (Low Flow)

Analyses:
- X TCL VOCs 602 503 Other
- X TCL SVOCs
- X Target Analyte List Metals
- X Alkalinity

Observations

Weather/Temperature: Partly cloudy skies, mid 50s
Sample description: clear
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes no X describe

Comments:
Flow rate: 500 ml/min. Final DTW: 11.80'. Contained purge water in 55-gallon drum. PID= 0.1 ppm.
Collected Blind Duplicate sample at MW-04R.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE April 22, 2014

SAMPLE ID: MW-06_4/22/14
WELL ID: MW-06
SAMPLERS: Keith Robins

Time On-site: 11:15 a.m.

Time Off-site: 12:45 p.m.

Depth of well (from top of casing)..... 21.50 ft Time:
Initial static water level (from top of casing) ..... 11.71 ft Time:

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Disp.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:

2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 9.79 ft. of water x 0.65 = 6.3 gallons

volume of water removed: 6.5 gal. >3 volumes: yes ____ no X purged dry? yes ____ no X

Field Tests

Volume of Purge Water (in ml)	pH	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.76	12.55	0.521	0.0	4.17	159
5,000 ml	6.71	11.90	0.520	0.0	3.23	162
10,,000 ml	6.60	11.70	0.525	0.0	3.71	165
15,000 ml	6.55	11.62	0.524	0.0	3.35	166
17,500 ml	6.56	11.68	0.524	0.0	2.90	162
20,000 ml	6.70	11.69	0.525	0.0	2.87	151
22,500 ml	6.79	11.67	0.525	0.0	2.85	152
25,000 ml	6.73	11.63	0.524	0.0	2.86	146

Sampling

Time of Sample Collection: 12:25 p.m.

Method:
- ____ Stainless steel bailer
- ____ Teflon bailer
- ____ Pos. Disp. Pump
- ____ Disposable bailer
- ____ Dedicated pump
- X Other: Disposable Bladder Pump (Low Flow)

Analyses:
- X TCL VOCs 602 ____ 503 ____ Other ____
- X TCL SVOCs
- X Target Analyte List Metals
- X Alkalinity

Observations

Weather/Temperature: Partly cloudy skies, mid 50s
Sample description: Clear, colorless, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

Comments:

Flow rate: 500 ml/min. Final DTW: 11.70'. Contained purge water in 55-gallon drum. PID= 0.0 ppm.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE April 22, 2014

SAMPLE ID: MW-07_4/22/14
WELL ID: MW-07
SAMPLERS: Keith Robins

Time On-site: 1:00 p.m.

Time Off-site: 2:15 p.m.

Depth of well (from top of casing)..... 21.40 ft Time:
Initial static water level (from top of casing) ..... 11.69 ft Time:

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Disp.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
3 in. casing: _____ ft. of water x 0.36 = _____ gallons
4 in. casing: 9.71 ft. of water x 0.65 = 6.3 gallons

volume of water removed: 6.5 gal. >3 volumes: yes ____ no X purged dry? yes ____ no X

Field Tests

Volume of Purge Water (in ml)	pH	Temp (°C)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.83	13.93	0.569	0.0	4.97	138
5,000 ml	6.78	13.11	0.580	0.0	2.97	144
7,500 ml	6.68	12.81	0.582	0.0	2.84	144
10,000 ml	6.64	12.69	0.565	0.0	2.73	141
12,500 ml	6.64	12.62	0.570	0.0	2.96	146
15,000 ml	6.65	12.60	0.586	0.0	2.87	145
17,500 ml	6.63	12.60	0.574	0.0	2.45	144
20,000 ml	6.66	12.69	0.567	0.0	2.50	142
25,000 ml	6.69	12.73	0.562	0.0	2.43	141

Sampling

Time of Sample Collection: 2:05 p.m.

Method:
- ____ Stainless steel bailer
- ____ Teflon bailer
- ____ Pos. Disp. Pump
- ____ Disposable bailer
- ____ Dedicated pump
- X Other: Disposable Bladder Pump (Low Flow)

Analyses:
- X TCL VOCs 602 _____ 503 _____ Other _____
- X TCL SVOCs
- X Target Analyte List Metals
- X Alkalinity

Observations

Weather/Temperature: Partly cloudy skies, 50s
Sample description: clear
Free Product? yes ____ no X describe
Sheen? yes ____ no X describe
Odor? yes ____ no X describe

Comments:

Flow rate: 500 ml/min. Final DTW: 11.69'. Contained purge water in 55-gallon drum. PID=0.0 ppm.

APPENDIX B-2

FIELD FORMS
DAILY EQUIPMENT CALIBRATION LOGS

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

DAILY EQUIPMENT CALIBRATION LOG

Date: April 22, 2014

Project Name: PSC - Chemical Pollution Control, LLC of New York

Project Number: 2786-P Calibrated by: K. Robins

Instrument Name and Model Number	Calibration Method	Time	Readings and Observations
Horiba Water Meter U-52	Buffer 4.0 solution, Autocal	7:50 a.m.	Calibrated pH, temp., dissolved oxygen, turbidity, conductivity
RAE 2000 PID Meter	100 ppm Isobutylene gas	7:40 a.m.	Calibrated to 100 ppm and zero air

APPENDIX B-3

WELL CONDITION REPORTS

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-01

	Yes	No	Remarks
1. Surface Concrete Seal			
Intact	X		
Cracked		X	
Missing		X	
2. Ponding of Water Around Concrete Seal		X	
3. Protective Flush-Mounted Cover/Standpipe and Lock			
Flush-Mounted Cover - Intact	X		
Standpipe - Intact			N/A
Lock - Intact	X		
4. Well Casing Alignment (Straight)	X		
5. Survey Measuring Point Clearly Marked	X		
6. Well Clearly Labeled		X	
7. Well is Protected	X		

Comments:

Inspector Signature Keith Robins

Date of Inspection April 22, 2014

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-03R

	Yes	No	Remarks
1. Surface Concrete Seal			
Intact	X		
Cracked	X		Corner of concrete pad cracked
Missing		X	
2. Ponding of Water Around Concrete Seal		X	
3. Protective Flush-Mounted Cover/Standpipe and Lock			
Flush-Mounted Cover - Intact	X		
Standpipe - Intact			N/A
Lock - Intact	X		
4. Well Casing Alignment (Straight)	X		
5. Survey Measuring Point Clearly Marked	X		
6. Well Clearly Labeled	X		
7. Well is Protected	X		

Comments:

Inspector Signature Keith Robins

Date of Inspection April 22, 2014

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-04R

	Yes	No	Remarks
1. Surface Concrete Seal			
Intact	X		
Cracked		X	
Missing		X	
2. Ponding of Water Around Concrete Seal		X	
3. Protective Flush-Mounted Cover/Standpipe and Lock			
Flush-Mounted Cover - Intact	X		
Standpipe - Intact			N/A
Lock - Intact	X		
4. Well Casing Alignment (Straight)	X		
5. Survey Measuring Point Clearly Marked	X		
6. Well Clearly Labeled	X		
7. Well is Protected	X		

Comments:

Inspector Signature Keith Robins

Date of Inspection April 22, 2014

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-06

	Yes	No	Remarks
1. Surface Concrete Seal			
Intact	X		
Cracked		X	
Missing		X	
2. Ponding of Water Around Concrete Seal		X	
3. Protective Flush-Mounted Cover/Standpipe and Lock			
Flush-Mounted Cover - Intact	X		
Standpipe - Intact			N/A
Lock - Intact	X		
4. Well Casing Alignment (Straight)	X		
5. Survey Measuring Point Clearly Marked	X		
6. Well Clearly Labeled	X		
7. Well is Protected	X		

Comments: _____

Inspector Signature Keith Robins

Date of Inspection April 22, 2014

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-07

	Yes	No	Remarks
1. Surface Concrete Seal			
Intact	X		
Cracked		X	
Missing		X	
2. Ponding of Water Around Concrete Seal		X	
3. Protective Flush-Mounted Cover/Standpipe and Lock			
Flush-Mounted Cover - Intact	X		
Standpipe - Intact			N/A
Lock - Intact	X		
4. Well Casing Alignment (Straight)	X		
5. Survey Measuring Point Clearly Marked	X		
6. Well Clearly Labeled	X		
7. Well is Protected	X		

Comments: .

Inspector Signature Keith Robins

Date of Inspection April 22, 2014

APPENDIX C

CHAIN OF CUSTODY FORM

N0633

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☒ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:
TAT- Indicate Date Needed: STAndard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Drivka + Bartilucci Engineers, 330 Crossways Park Drive, Woodbury NY 11797
Telephone #: 516 364-9890
Project Mgr.: Mike Hofgren

Invoice To: Drivka & Bartilucci Engineers, 330 Crossways Park Drive, Woodbury NY 11797
P.O. No.: 2786-P RQN:

Project No.: 2786-P
Site Name: PSC
Location: Bayshore, Long Island State: NY
Sampler(s): Keith Robins

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

List preservative code below: Ice | Ice | HNO_3 | Ice

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TCL VOCs (2) 40ml vials	TCL SVOCs (2) Liter Amber glass	TAL metals 500 plastic HNO_3	ALKalinity 250 plastic	QA/QC Reporting Notes
01	Trip Blank-4/22/14	4/22/14	—	—	AQ	2	—	—	—	✓	—	—	—	
02	MW-03R-4/22/14	4/22/14	0845	G	GW	2	2	—	2	✓	✓	✓	✓	
02	MW-03R(MS)-4/22/14	4/22/14	0845	G	GW	2	2	—	2	✓	✓	✓	✓	RUN MS
02	MW-03R(MSD)-4/22/14	4/22/14	0845	G	GW	2	2	—	2	✓	✓	✓	✓	RUN MSD
03	MW-04R-4/22/14	4/22/14	1035am	G	GW	2	2	—	2	✓	✓	✓	✓	
04	MW-06-4/22/14	4/22/14	1225pm	G	GW	2	2	—	2	✓	✓	✓	✓	
05	Blind Duplicate 4/22/14	4/22/14	0000	G	GW	2	2	—	2	✓	✓	✓	✓	
06	MW-07-4/22/14	4/22/14	205pm	G	GW	2	2	—	2	✓	✓	✓	✓	
07	MW-01-4/22/14	4/22/14	335pm	G	GW	2	2	—	2	✓	✓	✓	✓	
08	Field Blank-4/22/14	4/22/14	1250pm	G	AQ	2	2	—	2	✓	✓	✓	✓	

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☒ Other Category B Deliverables and EQuIS
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Keith Robins	FEDEX	4/22/14	4:00pm	
FEDEX	[signature]	04/23/14	09:56	4.2°, 4.8°

☐ EDD Format
☒ E-mail to MHofgren@db-eng.com

Condition upon receipt: Custody Seals: ☒ Present ☒ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

www.spectrum-analytical.com

Revised Feb 2013

APPENDIX D

DATA VALIDATION FORMS

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	PSC - Chemical Pollution Control, LLC of New York Semiannual Groundwater Monitoring Program
Project Number:	2786-P
Sample Date(s):	April 22, 2014
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 5 Soil/ 0 Field Duplicates/ 1 Trip Blanks/ 1 Field Blanks/ 1
Analyzing Laboratory:	Spectrum Analytical, Inc., North Kingston, RI
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Semivolatile Organic Compounds (SVOCs): by SW846 8270D Metals: Total by SW846 Method 6010C and mercury by SW-846 7470A Wet Chemistry: Alkalinity by Method SM 2320B
Laboratory Report No:	N0633 Date: 5/06/2014

ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using guidance from the USEPA National Functional Guidelines of June 2008, or USEPA National Functional Guidelines of Inorganic Data Review, January 2010, method performance criteria, and Dvirka and Bartilucci Consulting Engineers', a Division of D&B Engineers and Architects, P.C., professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
A DIVISION OF D&B ENGINEERS AND ARCHITECTS, P.C.

Custody Numbers: N0633
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis		
				VOC	SVOC	MET/WET
TRIP BLANK	N0633-01	4/22/14		X	--	--/--
MW-03R	N0633-02	4/22/14		X	X	X/X
MW-04R	N0633-03	4/22/14		X	X	X/X
MW-06	N0633-04	4/22/14		X	X	X/X
BLIND DUPLICATE	N0633-05	4/22/14	MW-04R	X	X	X/X
MW-07	N0633-06	4/22/14		X	X	X/X
MW-01	N0633-07	4/22/14		X	X	X/X
FIELD BLANK	N0633-08	4/22/14		X	X	X/X

ORGANIC ANALYSES
VOCs

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X		X	
3. Matrix spike (MS) %R		X	X		
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X		X	
6. Blank spike %R		X	X		
7. Surrogate spike recoveries		X	X		
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X	X		
11. Continuing calibration RRF's and %D's		X	X		
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	
14. Tentatively Identified Compounds (TICs)					X

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable, with the following exceptions:

3,4&6. The %R was above the QC limits for iodomethane in the MS, MSD and blank spike samples. Iodomethane was not detected in any of the samples; therefore, qualification of the data was not required.

7. The surrogate %R was above limits for dibromofluoromethane in MW-07. No associated compounds were detected above the reporting limit in MW-07; therefore, qualification of the data was not required.

10. 1,2,3-Trichlorobenzene and naphthalene %RSDs were above the QC limits in the initial calibration. 1,2,3-Trichlorobenzene and naphthalene were not detected in the associated samples; therefore, qualification of the data was not required.

11. Iodomethane %D was above QC limits in the continuing calibration associated with all samples except MW-01. Iodomethane was not detected in the associated samples; therefore, the samples were qualified as an estimated detection limit (UJ) in all samples except MW-01.

ORGANIC ANALYSES
SVOCs

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. Matrix spike (MS) %R		X		X	
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X	X		
6. Blank spike %R		X		X	
7. Surrogate spike recoveries		X	X		
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	
14. Tentatively Identified Compounds (TICs)					X

SVOCs –semivolatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable, with the following exceptions:

2A&B. Di-n-butylphthalate was detected in the method blank and field blank. Di-n-butylphthalate was qualified as non-detect (UB) in samples MW-04R, MW-06, BLIND DUPLICATE and MW-07.

4&5. The %R was above the QC limits for 2,4,5-trichlorophenol, benzo(a)pyrene, dibenzofuran and hexachlorobenzene in the MS. The RPD was above the QC limits for 4-chloroaniline and 4-nitrophenol in the MS/MSD. The compounds were not detected in the samples; therefore, qualification of the data was not required.

7. The surrogate %R was below limits for terphenyl-d14 in MW-07 and BLIND DUPLICATE. Associated compounds were not detected in MW-07 and BLIND DUPLICATE; therefore, qualification of the data was not required.

INORGANIC ANALYSES
METALS & WET CHEMISTRY

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R					X
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R		X		X	
9. Post digestive spike sample %R					X
10. Duplicate %RPD		X		X	
11. Serial dilution check %D		X		X	
12. Field duplicates RPD		X		X	

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable, with the following exception:

2A&B. Barium, calcium, cobalt, nickel, sodium, vanadium and zinc were detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit. The following metals were qualified as non-detect (UB): cobalt and vanadium in samples MW-04R and MW-06, and nickel and zinc in all samples.

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
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DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: N0633

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
All samples except MW-01	Iodomethane	UJ	%D was above QC limits in the continuing calibration
SVOCs			
MW-04R, MW-06, BLIND DUPLICATE and MW-07	Di-n-butylphthalate	UB	Detected in the method blank and field blank
Metals			
MW-04R and MW-06	Cobalt and vanadium	UB	Detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit
All samples	Nickel and zinc	UB	Detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 5/13/2014
VALIDATOR'S SIGNATURE:	