



PSC - Chemical Pollution Control, LLC of New York

Semiannual Groundwater Monitoring Program Report

September 2013 Sampling Event

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



OCTOBER 2013



DVIRKA
AND
BARTILUCCI
CONSULTING ENGINEERS

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



October 14, 2013

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
September 2013 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,

A handwritten signature in black ink, appearing to read 'Andy Maloy', with a long, sweeping horizontal line extending to the right.

Andy Maloy
Director, Environmental Liability Management

Enclosure

cc: B. Veith (D&B)

**SEMIANNUAL GROUNDWATER MONITORING PROGRAM REPORT
SEPTEMBER 2013 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**

OCTOBER 2013

**SEMIANNUAL GROUNDWATER MONITORING PROGRAM REPORT
SEPTEMBER 2013 SAMPLING EVENT
PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
BAY SHORE, NEW YORK**

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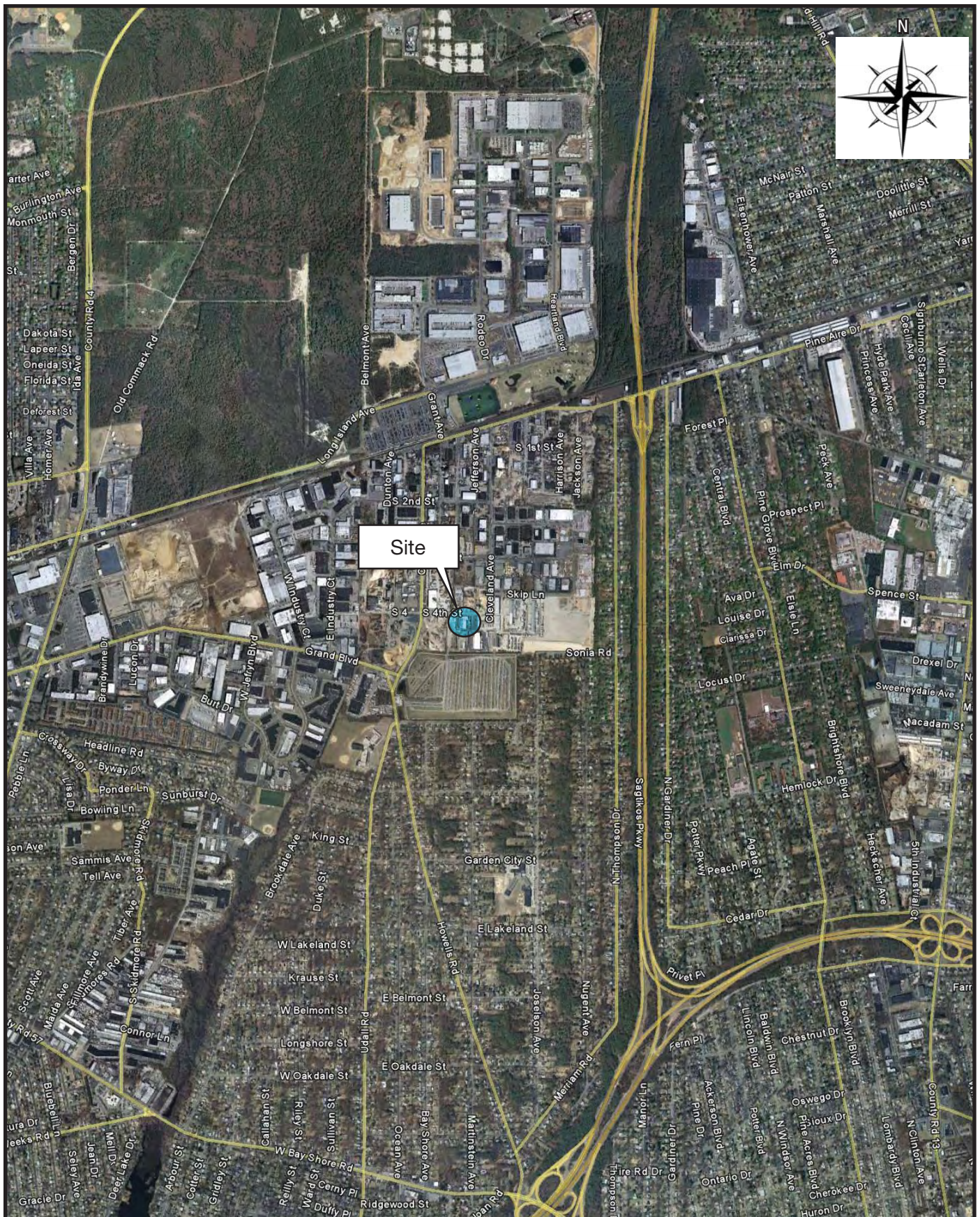
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1.0 INTRODUCTION

This report presents the groundwater sample results for the September 2013 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 September 2013 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.



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 September 2013 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 being undertaken at the facility, in December 2012 through June 2013, approximately 3,000 cubic yards of impacted soil was excavated and removed from the facility for proper off-site disposal. Included in this soil removal were the 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 the facility 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).

Prior to undertaking the September 2013 Sampling Event of the Semiannual Groundwater Monitoring Program, in accordance with the ICM Work Plan, on-site downgradient monitoring wells MW-03R, MW-04R and MW-06 were checked for pink/purple color and oxidation reduction potential (ORP) readings in late August (approximately 45 days following the injection activities) to determine whether the wells were suitable for sampling. Since none of

the wells exhibited a pink/purple color and ORP readings were at pre-injection conditions, it was determined that the wells were suitable for sampling.

2.0 SAMPLING LOCATIONS

Five monitoring wells were sampled at the CPC Bay Shore facility as part of the Semiannual Groundwater Monitoring Program September 2013 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. 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.

F:\2786[Dwg]\2786-IL-PL01.dwg, FIG 2-1, 10/8/2013 10:34:39 AM, lgubiak

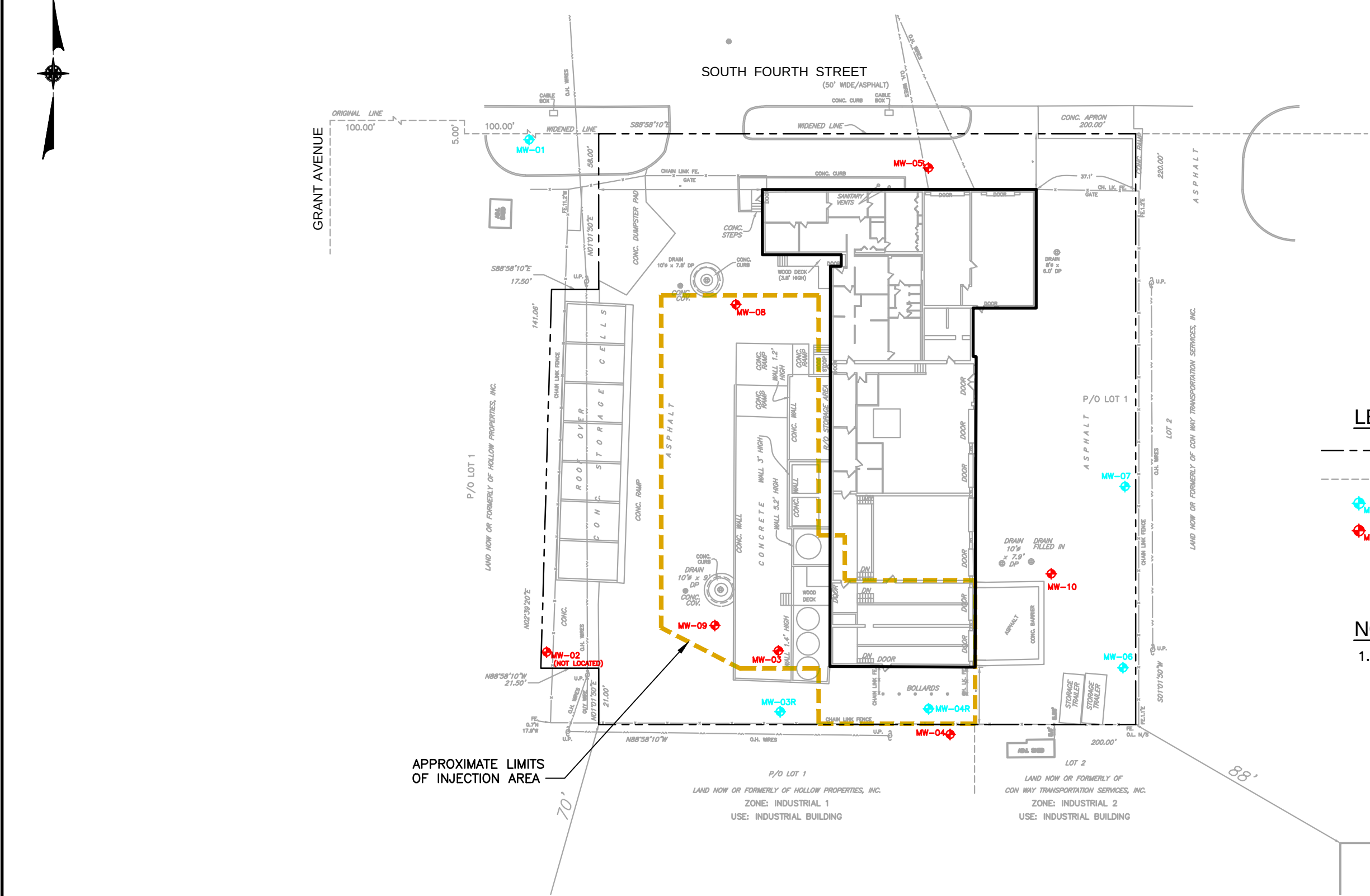


Table 2-1

**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		Height of Measuring Point (feet relative to land surface)	Elevation of Measuring Point (feet above mean sea level)
					(feet below land surface)	(elevation relative to 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). 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 September 2013 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 September 2013 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 September 2013 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 September 2013 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 September 2013 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 VOCs (CVOCs):

- cis-1,2-Dichloroethene (1,2-DCE) was detected at concentrations of 17 ug/l and 9.4 ug/l in samples MW-04R and MW-06, respectively, which exceed the Class GA Groundwater Standard of 5 ug/l.
- Trichloroethene (TCE) was detected at concentrations of 5.6 ug/l, 29 ug/l and 12 ug/l in samples MW-03R, MW-04R and MW-06, respectively, which exceed the Class GA Groundwater Standard of 5 ug/l.

Table 4-1

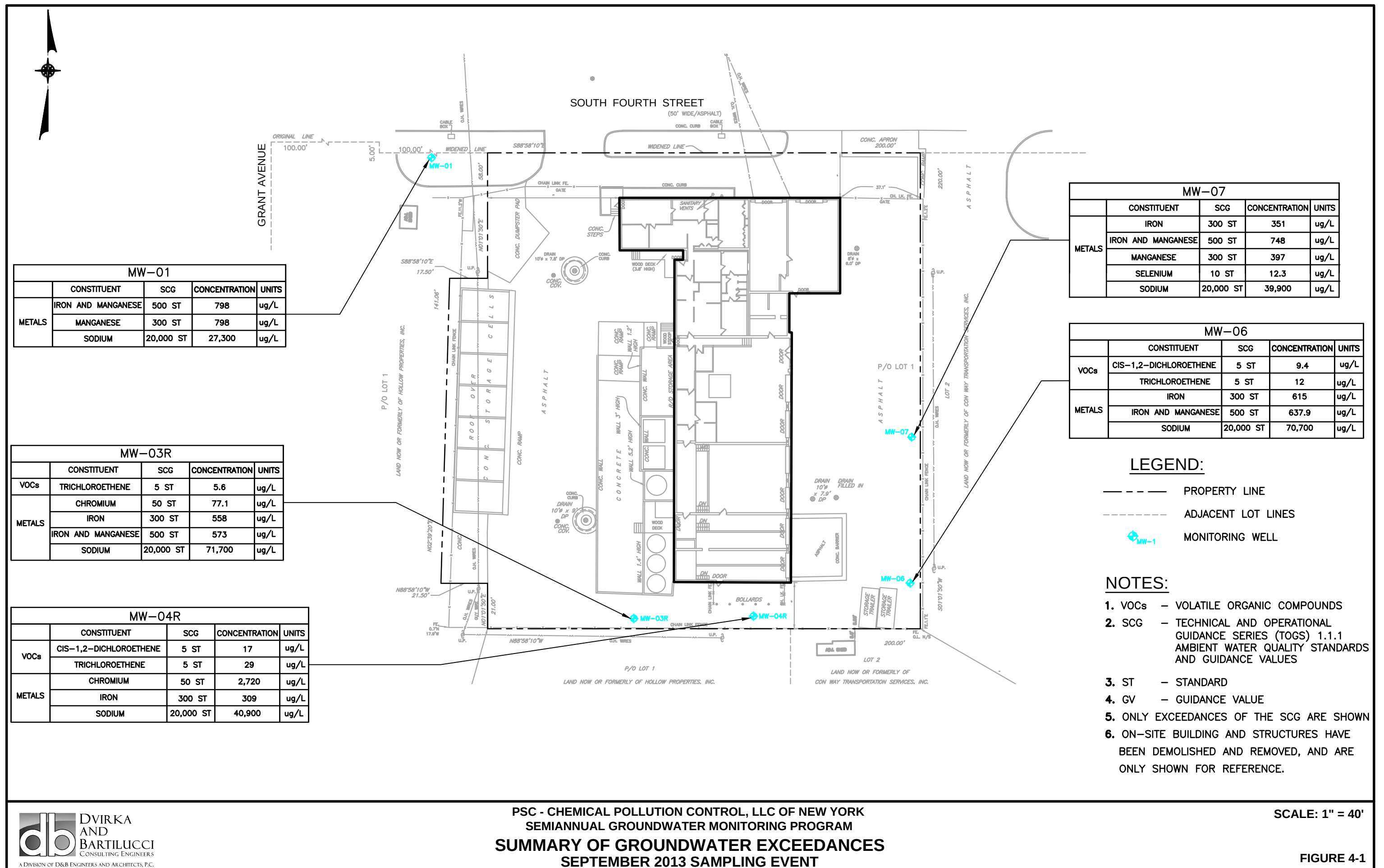
**PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
SEPTEMBER 2013 SAMPLING EVENT
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA**

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 September 5, 2013 (feet above msl)
MW-01	7.39	20.42	0.409	0.0	91	1.30	0.0	Low-flow bladder pump	50.48
MW-03R	7.44	20.51	0.588	16.3	60	1.25	0.1	Low-flow bladder pump	50.09
MW-04R	7.04	19.55	0.418	2.0	46	1.81	0.0	Low-flow bladder pump	49.99
MW-06	7.21	18.15	0.890	5.2	156	0.47	0.1	Low-flow bladder pump	49.92
MW-07	7.05	18.08	0.665	0.8	151	0.67	1.2	Low-flow bladder pump	49.99

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	9.41	17.00	4	4	September 5, 2013	2:25 p.m.	KR	Partly cloudy
MW-03R	11.64	20.00	2	4.6	September 5, 2013	12:45 p.m.	KR	Partly cloudy
MW-04R	11.59	20.00	2	3.3	September 5, 2013	11:40 a.m.	KR	Partly cloudy
MW-06	11.49	21.50	4	4	September 5, 2013	9:50 a.m.	KR	Partly cloudy
MW-07	11.45	21.50	4	4	September 5, 2013	8:30 a.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



As shown on Figure 4-1, wells MW-03R and MW-04R are located along the southern, downgradient boundary of the facility, and well MW-06 is located just north of the southeastern corner of the facility along the downgradient boundary of the facility.

The CVOCs detected during the September 2013 Sampling Event were 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 for MW-03R and MW-04R, and increased slightly for MW-06 compared to the results of the April 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
MW-03	95.7	19	52.8	28.7	9.6	decom.	decom.
MW-03R	--	--	--	--	7.3	30.2	8.2
MW-04	646.4	104.5	284.8	22.1	98	decom.	decom.
MW-04R	--	--	--	--	180	106.5	50.01
MW-06	ND	3.9	7.9	2.9	5.9	9.21	22.9
MW-09	68.5	26.8	41.8	6.1	6.2	decom.	decom.
MW-10	2.9	1.0	19.3	5.3	4.48	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:

- Chromium was detected at concentrations of 77.1 ug/l and 2,720 ug/l in monitoring wells MW-03R and MW-04R, respectively, which exceed the Class GA Groundwater Standard of 50 ug/l.
- Iron was detected at concentrations of 558 ug/l, 309 ug/l, 615 ug/l and 351 ug/l in monitoring wells MW-03R, MW-04R, MW-06 and MW-07, respectively, which exceed the Class GA Groundwater Standard of 300 ug/l.
- Manganese was detected at concentrations of 798 ug/l and 397 ug/l in monitoring wells MW-01 and MW-07, respectively, which exceed the Class GA Groundwater Standard of 300 ug/l.
- Selenium was detected at a concentration of 12.3 ug/l in monitoring well MW-07 which exceeds the Class GA Groundwater Standard of 10 ug/l.
- Sodium was detected at concentrations of 27,300 ug/l, 71,700 ug/l, 40,900 ug/l, 70,700 ug/l and 39,900 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 798 ug/l, 573 ug/l, 637.9 ug/l and 748 ug/l in monitoring wells MW-01, MW-03R, MW-06 and MW-07, respectively, which exceed the Class GA Groundwater Standard of 500 ug/l.

Alkalinity ranged in concentration from 100 mg/l in monitoring well MW-04R to a maximum of 150 mg/l in monitoring wells MW-06 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 September 2013 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 M1648.

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 recovery (%R) was below QC limits for xylene in the laboratory spike sample associated with samples Trip Blank and Field Blank. Xylene was qualified as an estimated detection limit (UJ) in samples Trip Blank and Field Blank.
- The percent differences (%Ds) for hexachlorobutadiene and 1,2,3-trichlorobenzene were above QC limits in the continuing calibration associated with samples Trip Blank and Field Blank. Hexachlorobutadiene and 1,2,3-trichlorobenzene were qualified as an estimated detection limit (UJ) in samples Trip Blank and Field Blank.
- Barium, cobalt, nickel, potassium and sodium were detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit. Based on the sample concentrations, the following were qualified as non-detect (UB): barium in samples MW-01, MW-04R, MW-07 and Blind Duplicate, and cobalt and nickel (if detected) in all samples.
- The %Ds were above the QC limits for barium and potassium in the serial dilution. Barium and potassium were qualified as estimated (J/UJ) in all samples.

- Sample MW-07 was duplicated in the field and labeled Blind Duplicate. Based on the concentrations, chromium and iron were qualified as estimated (J) in samples MW-07 and Blind Duplicate.

One blind duplicate sample was collected from well MW-07. In addition, one matrix spike/matrix spike duplicate set was collected from well MW-06.

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 September 2013 Sampling Event are provided in Appendix D.

6.0 GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

Groundwater level measurements were obtained by D&B on September 5, 2013 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 September 5, 2013 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 fairly consistent with flow conditions previously mapped. In addition, the groundwater flow velocity was calculated utilizing Darcy's Law to be approximately 1.7 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
SEPTEMBER 5, 2013**

Well Designation	Measuring Point Elevation (feet above msl)	Depth to Water from Measuring Point (feet)	Groundwater Elevation (feet above msl)
MW-01	59.89	9.41	50.48
MW-03R	61.73	11.64	50.09
MW-04R	61.58	11.59	49.99
MW-06	61.41	11.49	49.92
MW-07	61.44	11.45	49.99

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

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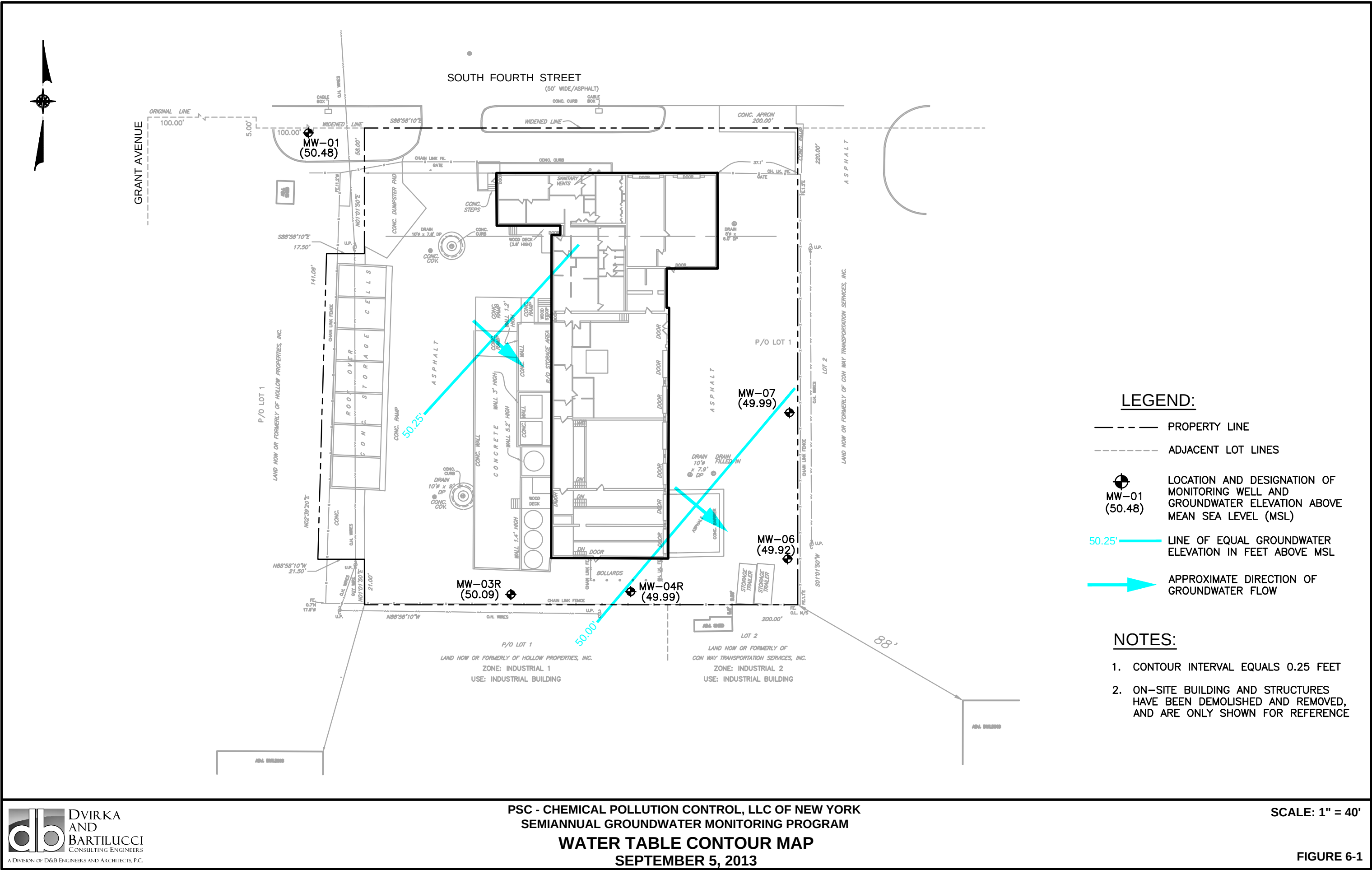


Table 6-2

**PSC - CHEMICAL POLLUTION CONTROL, LLC OF NEW YORK
SEMIANNUAL GROUNDWATER MONITORING PROGRAM
SEPTEMBER 2013 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-01 and MW-04R :

MW-01 GW El = 50.48 feet above mean sea level (amsl)

MW-04R GW El = 49.99 feet amsl

Distance between MW-01 and MW-04R = 260 feet

$$i = 0.00188 \text{ ft/ft}$$

3. Groundwater Velocity Calculation:

$$V = Ki/n$$

$$V = \underline{1.7} \text{ ft/day}$$

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following sections present the conclusions and recommendations of the Semiannual Groundwater Monitoring Program based on the September 2013 Sampling Event.

7.1 Conclusions

Groundwater Flow

Based on the groundwater elevation measurements obtained during the September 2013 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. However, it should be noted that the groundwater elevations obtained during the September 2013 Sampling Event were approximately 4.5 inches lower than the elevations measured during the April 2013 Sampling Event. The lower groundwater elevations are likely attributable to precipitation amounts being lower during the several months leading up to the sampling event.

Monitoring Wells

Since completion of the April 2013 Sampling Event, approximately 19,974 gallons of a 2% sodium permanganate solution were injected at 80 locations on-site in the 10 to 14-foot and 16 to 20-foot horizons below grade over a 10,100-square-foot area to the west of the former site building (see Figure 2-1) as part of the Interim Corrective Measures (ICM) Program. The purpose of this in-situ chemical oxidation (ISCO) injection program was to address the residual chlorinated VOC concentrations present in the facility's groundwater. The injection program was undertaken over 7 days in July 2013. Since monitoring of on-site downgradient monitoring wells MW-03R, MW-04R and MW-06 in late August 2013 indicated no pink/purple color and oxidation reduction potential (ORP) readings at pre-injection concentrations, it was determined that the wells were suitable for sampling.

Based on a comparison of the April 2013 and September 2013 sample results, total VOC concentrations detected during the September 2013 Sampling Event decreased in wells MW-03R (30.2 ug/l to 8.2 ug/l) and MW-04R (106.5 ug/l to 50.01 ug/l), and increased in well MW-06 (9.21 ug/l to 22.9 ug/l). However, the total VOC concentrations observed in these wells during the April 2013 Sampling Event are consistent with the concentrations historically observed at the facility, and are generally much lower than those concentrations observed during the RFI sampling activities (August 2010), with the exception of well MW-06 where individual exceedances were detected for the first time. The chlorinated VOC concentrations present in well MW-06 may be due to rebound following the chemical oxidation injection program.

Iron, manganese and sodium 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 the 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. Also, sodium was contained in the solution injected at the site as part of the ISCO field activities. 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. In addition, the sodium concentrations appear to be temporarily elevated due to the ISCO program.

Chromium was detected at concentrations above its respective Class GA Groundwater Standard (50 ug/l) in the samples collected from monitoring wells MW-03R (77.1 ug/l) and MW-04R (2,720 ug/l). This is the first time during performance of the Semiannual Groundwater Monitoring Program that chromium has been detected in these monitoring wells at concentrations exceeding its Class GA Groundwater Standard. According to USEPA guidance on in-situ chemical oxidation injection programs, it is not unusual for metals, such as chromium in particular, to become mobilized by chemical oxidation injections. The guidance suggests that this mobilization is typically only temporary and chromium should be reabsorbed to the soil

fairly quickly. Since it has only been approximately two months since the injection program, satisfactory time for this re-absorption to occur may not have passed.

Selenium was detected at a concentration in monitoring well MW-07 in excess of its Class GA Groundwater Standard (12.3 ug/l versus the Standard of 10 ug/l). During the April 2013 Sampling Event, selenium was detected for the first time during performance of the Semiannual Groundwater Monitoring Program in any monitoring well located at the facility. The concentration of selenium detected in this well during the April 2013 Sampling Event was 14 ug/l. The cause of the selenium concentrations detected in this well is not known. Monitoring well MW-07 is located along the eastern property boundary of the facility and is generally not directly downgradient of any of the waste storage areas formerly located at the facility. However, this concentration may be due to the large amount of soil disturbance that occurred at the facility in late 2012 through June 2013 during performance of the ICM field program. The data validation performed on this sample indicated that the selenium concentration is from the sample and is not due to any laboratory error or contamination.

7.2 Recommendations

Based upon the results of the September 2013 Sampling Event, the monitoring frequency should remain semiannual. The concentrations of chlorinated VOCs in monitoring well MW-06, the concentrations of chromium in monitoring wells MW-03R and MW-04R, and the concentration of selenium in monitoring well MW-07 should be monitored to determine whether these concentrations increase or remain constant, or whether the concentrations observed in these wells during the September 2013 Sampling Event return to pre-ICM program concentrations. In addition, the concentrations of chlorinated VOCs in monitoring wells MW-03R and MW-04R should continue to be monitored to determine if these concentrations further decrease due to the ISCO Program.

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 Date Collected Dilution Factor Units	MW-01 8/19/2010 1 ug/l	MW-01 4/26/2011 1 ug/l	MW-01 9/28/2011 1 ug/l	MW-01 4/12/2012 1 ug/l	MW-01 9/7/2012 1 ug/l	MW-01 4/5/2013 1 ug/l	MW-01 9/5/2013 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	U	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	U	U	U	U	5	5
Carbon Disulfide	U	U	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	U	U	U	U	U	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	U	5	5
n-Propylbenzene	U	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	U	5	5
sec-Butylbenzene	U	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	U	U	5	5
Toluene	U	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	U	U	U	U	U	1.4 J	5	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	U	5	5
Total Volatile Organic Compounds	0	0	0	0	0	0	1.4	--	--

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 Date Collected Dilution Factor Units	MW-03 8/18/2010 1 ug/l	MW-03 4/25/2011 1 ug/l	MW-03 9/27/2011 1 ug/l	MW-03 4/13/2012 1 ug/l	MW-03 9/6/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (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
 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 Date Collected Dilution Factor Units	MW-03R 9/6/2012 1 ug/l	MW-03R 4/4/2013 1 ug/l	MW-03R 9/5/2013 1 ug/l					CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
1,1,1,2-Tetrachloroethane	U	U	U					5	5
1,1,1-Trichloroethane	U	U	U					5	5
1,1,2,2-Tetrachloroethane	U	U	U					5	5
1,1,2-Trichloroethane	U	U	U					5	1
1,1-Dichloroethane	U	U	U					5	5
1,1-Dichloroethene	U	U	U					5	5
1,1-Dichloropropene	U	U	U					5	5
1,2,3-Trichlorobenzene	U	U	U					5	5
1,2,3-Trichloropropane	U	U	U					5	0.04
1,2,4-Trichlorobenzene	U	UJ	U					5	5
1,2,4-Trimethylbenzene	U	U	U					5	5
1,2-Dibromo-3-chloropropane	U	U	U					5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	UJ	U					5	0.0006
1,2-Dichlorobenzene	U	U	U					5	3
1,2-Dichloroethane	U	U	U					5	0.6
1,2-Dichloropropane	U	U	U					5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U					5	5
1,3-Dichlorobenzene	U	U	U					5	3
1,3-Dichloropropane	U	U	U					5	5
1,4-Dichlorobenzene	U	U	U					5	3
2,2-Dichloropropane	UJ	U	U					5	5
2-Chlorotoluene	U	U	U					5	50
2-Hexanone	U	U	U					5	50
4-Chlorotoluene	U	U	U					5	5
Acetone	U	U	U					5	50
Benzene	U	U	U					5	1
Bromobenzene	U	U	U					5	5
Bromochloromethane	U	U	U					5	5
Bromodichloromethane	U	U	U					5	50
Bromoform	U	U	U					5	50
Bromomethane	U	U	U					5	5
Carbon Disulfide	U	U	U					5	60
Carbon Tetrachloride	U	U	U					5	5
Chlorobenzene	U	U	U					5	5
Chloroethane	U	U	U					5	5
Chloroform	U	1.3 J	U					5	7
Chloromethane	U	U	U					5	5
cis-1,2-Dichloroethylene	1.2 J	1.9 J	1.0 J					5	5
cis-1,3-Dichloropropene	U	U	U					5	0.4
Cymene	U	U	U					5	5
Dibromochloromethane	U	U	U					5	50
Dibromomethane	U	UJ	U					5	5
Dichlorodifluoromethane	U	U	U					5	5
Ethylbenzene	U	U	U					5	5
Hexachlorobutadiene	U	U	U					5	0.5
Iodomethane (Methyl Iodide)	U	U	U					5	5
Isopropylbenzene (Cumene)	U	UJ	U					5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U					5	50
Methyl Isobutyl Ketone	U	U	U					5	--
Methylene Chloride	U	U	U					5	5
m&p-Xylene	U	U	U					5	5
Naphthalene	U	U	U					5	10
n-Butylbenzene	U	UJ	U					5	5
n-Propylbenzene	U	U	U					5	5
o-Xylene (1,2-Dimethylbenzene)	U	UJ	U					5	5
sec-Butylbenzene	U	U	U					5	5
Styrene	U	U	U					5	5
t-Butylbenzene	U	U	U					5	5
tert-Butyl Methyl Ether	U	U	U					5	10
Tetrachloroethylene (PCE)	U	15 J	1.6 J					5	5
Toluene	U	U	U					5	5
trans-1,2-Dichloroethene	U	U	U					5	5
trans-1,3-Dichloropropene	U	U	U					5	0.4
Trichloroethylene (TCE)	6.1	12	5.6					5	5
Trichlorofluoromethane	U	U	U					5	5
Vinyl Acetate	U	U	U					5	--
Vinyl Chloride	U	U	U					5	2
Xylenes, Total	U	UJ	U					5	5
Total Volatile Organic Compounds	7.3	30.2	8.2					--	--

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

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

Sample ID Date Collected Dilution Factor Units	MW-04 8/19/2010 1 ug/l	MW-04 4/26/2011 1 ug/l	MW-04 9/28/2011 1 ug/l	MW-04 4/13/2012 1 ug/l	MW-04 9/7/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (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
Bromoforn	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 Date Collected Dilution Factor Units	MW-04R 9/5/2012 1 ug/l	MW-04R 4/4/2013 1 ug/l	MW-04R 9/5/2013 1 ug/l					CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
1,1,1,2-Tetrachloroethane	U	U	U					5	5
1,1,1-Trichloroethane	U	U	0.51 J					5	5
1,1,2,2-Tetrachloroethane	U	U	U					5	5
1,1,2-Trichloroethane	U	U	U					5	1
1,1-Dichloroethane	U	U	U					5	5
1,1-Dichloroethene	U	U	U					5	5
1,1-Dichloropropene	U	U	U					5	5
1,2,3-Trichlorobenzene	U	U	U					5	5
1,2,3-Trichloropropane	U	U	U					5	0.04
1,2,4-Trichlorobenzene	U	UJ	U					5	5
1,2,4-Trimethylbenzene	U	U	U					5	5
1,2-Dibromo-3-chloropropane	U	U	U					5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	UJ	U					5	0.0006
1,2-Dichlorobenzene	U	U	U					5	3
1,2-Dichloroethane	U	U	U					5	0.6
1,2-Dichloropropane	U	U	U					5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U					5	5
1,3-Dichlorobenzene	U	U	U					5	3
1,3-Dichloropropane	U	U	U					5	5
1,4-Dichlorobenzene	U	U	U					5	3
2,2-Dichloropropane	UJ	U	U					5	5
2-Chlorotoluene	U	U	U					5	50
2-Hexanone	U	U	U					5	50
4-Chlorotoluene	U	U	U					5	5
Acetone	U	U	U					5	50
Benzene	U	U	U					5	1
Bromobenzene	U	U	U					5	5
Bromochloromethane	U	U	U					5	5
Bromodichloromethane	U	U	U					5	50
Bromoform	U	U	U					5	50
Bromomethane	U	U	U					5	5
Carbon Disulfide	U	U	U					5	60
Carbon Tetrachloride	U	U	U					5	5
Chlorobenzene	U	U	U					5	5
Chloroethane	U	U	U					5	5
Chloroform	5.6	1.8 J	1.0 J					5	7
Chloromethane	U	U	U					5	5
cis-1,2-Dichloroethylene	70	41	17					5	5
cis-1,3-Dichloropropene	U	U	U					5	0.4
Cymene	U	U	U					5	5
Dibromochloromethane	U	U	U					5	50
Dibromomethane	U	UJ	U					5	5
Dichlorodifluoromethane	U	U	U					5	5
Ethylbenzene	U	U	U					5	5
Hexachlorobutadiene	U	U	U					5	0.5
Iodomethane (Methyl Iodide)	U	U	U					5	5
Isopropylbenzene (Cumene)	U	UJ	U					5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U					5	50
Methyl Isobutyl Ketone	U	U	U					5	--
Methylene Chloride	U	U	U					5	5
m&p-Xylene	U	U	U					5	5
Naphthalene	U	U	U					5	10
n-Butylbenzene	U	UJ	U					5	5
n-Propylbenzene	U	U	U					5	5
o-Xylene (1,2-Dimethylbenzene)	U	UJ	U					5	5
sec-Butylbenzene	U	U	U					5	5
Styrene	U	U	U					5	5
t-Butylbenzene	U	U	U					5	5
tert-Butyl Methyl Ether	U	U	U					5	10
Tetrachloroethylene (PCE)	6.4	4.7 J	2.5 J					5	5
Toluene	U	U	U					5	5
trans-1,2-Dichloroethene	U	U	U					5	5
trans-1,3-Dichloropropene	U	U	U					5	0.4
Trichloroethylene (TCE)	98	59	29					5	5
Trichlorofluoromethane	U	U	U					5	5
Vinyl Acetate	U	U	U					5	--
Vinyl Chloride	U	U	U					5	2
Xylenes, Total	U	UJ	U					5	5
Total Volatile Organic Compounds	180	106.5	50.01					--	--

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 Date Collected Dilution Factor Units	MW-05 8/19/2010 1 ug/l	MW-05 4/26/2011 1 ug/l	MW-05 9/28/2011 1 ug/l	MW-05 4/12/2012 1 ug/l	MW-05 9/5/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (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
Bromoforn	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

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

Sample ID Date Collected Dilution Factor Units	MW-06 8/18/2010 1 ug/l	MW-06 4/25/2011 1 ug/l	MW-06 9/27/2011 1 ug/l	MW-06 4/12/2012 1 ug/l	MW-06 9/5/2012 1 ug/l	MW-06 4/4/2013 1 ug/l	MW-06 9/5/2013 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	UJ	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	U	U	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	UJ	U	U	U	5	5
Carbon Disulfide	U	U	U	U*	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	U	5	7
Chloromethane	U	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	9.4	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	U	5	5
n-Propylbenzene	U	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	U	5	5
sec-Butylbenzene	U	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	0.81 J	1.5 J	5	5
Toluene	U	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	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	12	5	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	U	5	5
Total Volatile Organic Compounds	0	3.9	7.9	2.9	5.9	9.21	22.9	--	--

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

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

Sample ID Date Collected Dilution Factor Units	MW-07 8/18/2010 1 ug/l	MW-07 4/25/2011 1 ug/l	MW-07 9/27/2011 1 ug/l	MW-07 4/12/2012 1 ug/l	MW-07 9/5/2012 1 ug/l	MW-07 4/4/2013 1 ug/l	MW-07 9/5/2013 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (ug/l)
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5	5
1,1,2-Trichloroethane	U	U	U	U	U	U	U	5	1
1,1-Dichloroethane	U	U	U	U	U	U	U	5	5
1,1-Dichloroethene	U	UJ	U	U	U	U	U	5	5
1,1-Dichloropropene	U	U	U	U	U	U	U	5	5
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	5	5
1,2,3-Trichloropropane	U	U	U	U	U	U	U	5	0.04
1,2,4-Trichlorobenzene	U	U	U	UJ	U	UJ	U	5	5
1,2,4-Trimethylbenzene	U	U	U	UJ	U	U	U	5	5
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	5	0.04
1,2-Dibromoethane (Ethylene Dibromide)	U	U	U	UJ	U	UJ	U	5	0.0006
1,2-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,2-Dichloroethane	U	U	U	U	U	U	U	5	0.6
1,2-Dichloropropane	U	U	U	U	U	U	U	5	1
1,3,5-Trimethylbenzene (Mesitylene)	U	U	U	U	U	U	U	5	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	5	3
1,3-Dichloropropane	U	U	U	U	U	U	U	5	5
1,4-Dichlorobenzene	1.2 J	U	U	U	U	U	U	5	3
2,2-Dichloropropane	U	U	UJ	U	UJ	U	U	5	5
2-Chlorotoluene	U	U	U	U	U	U	U	5	50
2-Hexanone	U	U	U	U	U	U	U	5	50
4-Chlorotoluene	U	U	U	U	U	U	U	5	5
Acetone	U	U	U	U	U	U	U	5	50
Benzene	U	UJ	U	U	U	U	U	5	1
Bromobenzene	U	U	U	U	U	U	U	5	5
Bromochloromethane	U	U	U	U	U	U	U	5	5
Bromodichloromethane	U	U	U	U	U	U	U	5	50
Bromoform	U	U	U	U	U	U	U	5	50
Bromomethane	U	U	UJ	U	U	U	U	5	5
Carbon Disulfide	U	U	U	U	U	U	U	5	60
Carbon Tetrachloride	U	U	U	U	U	U	U	5	5
Chlorobenzene	U	U	U	U	U	U	U	5	5
Chloroethane	U	U	U	U	U	U	U	5	5
Chloroform	U	U	U	U	U	U	U	5	7
Chloromethane	U	U	U	U	U	U	U	5	5
cis-1,2-Dichloroethylene	U	U	U	U	U	U	0.52 J	5	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	5	0.4
Cymene	U	U	U	U	U	U	U	5	5
Dibromochloromethane	U	U	U	U	U	U	U	5	50
Dibromomethane	U	U	U	U	U	UJ	U	5	5
Dichlorodifluoromethane	U	U	U	U	U	U	U	5	5
Ethylbenzene	U	U	U	U	U	U	U	5	5
Hexachlorobutadiene	U	U	U	U	U	U	U	5	0.5
Iodomethane (Methyl Iodide)	U	U	UJ	UJ	U	U	U	5	5
Isopropylbenzene (Cumene)	U	U	U	U	U	UJ	U	5	5
Methyl Ethyl Ketone (2-Butanone)	U	U	U	U	U	U	U	5	50
Methyl Isobutyl Ketone	U	U	U	U	U	U	U	5	--
Methylene Chloride	U	U	U	U	U	U	U	5	5
m&p-Xylene	U	U	U	U	U	U	U	5	5
Naphthalene	U	U	U	UJ	U	U	U	5	10
n-Butylbenzene	U	U	U	U	U	UJ	U	5	5
n-Propylbenzene	U	U	U	U	U	U	U	5	5
o-Xylene (1,2-Dimethylbenzene)	U	U	U	U	U	UJ	U	5	5
sec-Butylbenzene	U	U	U	U	U	U	U	5	5
Styrene	U	U	U	U	U	U	U	5	5
t-Butylbenzene	U	U	U	U	U	U	U	5	5
tert-Butyl Methyl Ether	U	U	U	U	U	U	U	5	10
Tetrachloroethylene (PCE)	U	U	U	U	U	1.1 J	0.7 J	5	5
Toluene	U	U	U	U	U	U	U	5	5
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	5	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	5	0.4
Trichloroethylene (TCE)	U	U	U	U	U	1.8 J	2.5 J	5	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5	5
Vinyl Acetate	U	U	U	U	U	U	U	5	--
Vinyl Chloride	U	U	U	U	U	U	U	5	2
Xylenes, Total	U	U	U	U	U	UJ	U	5	5
Total Volatile Organic Compounds	1.2	0	0	0	0	2.9	3.72	--	--

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 Date Collected Dilution Factor Units	MW-08 8/18/2010 1 ug/l	MW-08 4/26/2011 1 ug/l	MW-08 9/28/2011 1 ug/l	MW-08 4/13/2012 1 ug/l	MW-08 9/6/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (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
Bromoforn	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
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 Date Collected Dilution Factor Units	MW-09 8/19/2010 1 ug/l	MW-09 4/25/2011 1 ug/l	MW-09 9/27/2011 1 ug/l	MW-09 4/13/2012 1 ug/l	MW-09 9/6/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (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
Bromoforn	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

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

Sample ID Date Collected Dilution Factor Units	MW-10 8/18/2010 1 ug/l	MW-10 4/26/2011 1 ug/l	MW-10 9/27/2011 1 ug/l	MW-10 4/12/2012 1 ug/l	MW-10 9/11/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (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
Bromoforn	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
 Exceeds Class GA Groundwater Standard/Guidance Value

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	MW-01	CONTRACT	NYSDEC CLASS GA
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/7/2012	4/5/2013	9/5/2013	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
								(ug/l)	(ug/l)
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	UJ	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	U	U	10	5
Carbazole	U	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	U	U	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	U	10	5
Hexachloroethane	U	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	UJ	U	U	10	0.4
N-Nitrosodi-n-propylamine	U	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	U	10	1
Phenanthrene	U	U	U	U	U	U	U	10	50
Phenol	U	U	U	U*	U	U	U	10	1
Pyrene	U	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	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*: 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-03	MW-03	MW-03	MW-03	MW-03	CONTRACT	NYSDEC CLASS GA
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
						(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-Nitrosodi-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*: 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-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						
Dilution Factor	1	1	1						
Units	ug/l	ug/l	ug/l						
1,2,4-Trichlorobenzene	U	U	U					10	5
1,2-Dichlorobenzene	U	U	U					10	3
1,3-Dichlorobenzene	U	U	U					10	3
1,4-Dichlorobenzene	U	U	U					10	3
2,4,5-Trichlorophenol	U	U	U					20	1
2,4,6-Trichlorophenol	U	U	U					10	1
2,4-Dichlorophenol	U	U	U					10	5
2,4-Dimethylphenol	U	U	U					10	50
2,4-Dinitrophenol	UJ	U	U					20	10
2,4-Dinitrotoluene	U	U	U					10	5
2,6-Dinitrotoluene	U	U	U					10	5
2-Chloronaphthalene	U	U	U					10	10
2-Chlorophenol	U	U	U					10	1
2-Methylnaphthalene	UJ	U	U					10	--
2-Methylphenol (o-Cresol)	U	U	U					10	1
2-Nitroaniline	U	U	U					20	5
2-Nitrophenol	U	U	U					10	1
3,3'-Dichlorobenzidine	U	U	U					10	5
3-Nitroaniline	U	U	U					20	5
4,6-Dinitro-2-methylphenol	UJ	U	U					20	1
4-Bromophenyl Phenyl Ether	U	U	U					10	--
4-Chloro-3-methylphenol	U	U	U					10	1
4-Chloroaniline	U	U	U					10	5
4-Chlorophenyl Phenyl Ether	U	U	U					10	--
4-Methylphenol (p-Cresol)	U	U	U					10	1
4-Nitroaniline	U	U	U					20	5
4-Nitrophenol	U	U	U					20	1
Acenaphthene	U	U	U					10	20
Acenaphthylene	U	U	U					10	--
Anthracene	U	U	U					10	50
Benzo(a)anthracene	U	U	U					10	0.002
Benzo(a)pyrene	U	U	U					10	--
Benzo(b)fluoranthene	U	U	U					10	0.002
Benzo(g,h,i)perylene	U	U	U					10	--
Benzo(k)fluoranthene	U	U	U					10	0.002
Benzyl Butyl Phthalate	U	U	U					10	50
bis(2-Chloroethoxy) Methane	U	U	U					10	5
bis(2-Chloroethyl) Ether	U	U	U					10	1
bis(2-Chloroisopropyl) Ether	U	U	U					10	--
bis(2-Ethylhexyl) Phthalate	U*	U	U					10	5
Carbazole	U	U	U					10	--
Chrysene	U	U	U					10	0.002
Dibenz(a,h)anthracene	U	U	U					10	--
Dibenzofuran	U	U	U					10	--
Diethyl Phthalate	U	U	U					10	50
Dimethyl Phthalate	U	U	U					10	50
Di-n-Butyl Phthalate	U*	U	U					10	50
Di-n-Octylphthalate	U	U	U					10	50
Fluoranthene	U	U	U					10	50
Fluorene	U	U	U					10	50
Hexachlorobenzene	U	U	U					10	0.04
Hexachlorobutadiene	U	U	U					10	0.5
Hexachlorocyclopentadiene	UJ	U	U					10	5
Hexachloroethane	U	U	U					10	5
Indeno(1,2,3-c,d)pyrene	U	U	U					10	0.002
Isophorone	U	U	U					10	50
Naphthalene	U	U	U					10	10
Nitrobenzene	UJ	U	U					10	0.4
N-Nitrosodi-n-propylamine	U	U	U					10	--
N-Nitrosodiphenylamine	U	U	U					20	50
Pentachlorophenol	UJ	U	U					10	1
Phenanthrene	U	U	U					10	50
Phenol	U	U	U					10	1
Pyrene	U	U	U					10	50
Total Semivolatile Organic Compounds	0	0	0					--	--

Qualifiers:

U: Not detected

J: Estimated value or limit

UJ: Not detected, value estimated due to validation criteria

U*: 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	NYSDEC CLASS GA
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/13/2012	9/7/2012	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
						(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-Nitrosodi-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*: 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-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						
Dilution Factor	1	1	1						
Units	ug/l	ug/l	ug/l						
1,2,4-Trichlorobenzene	U	U	U					10	5
1,2-Dichlorobenzene	U	U	U					10	3
1,3-Dichlorobenzene	U	U	U					10	3
1,4-Dichlorobenzene	U	U	U					10	3
2,4,5-Trichlorophenol	U	U	U					20	1
2,4,6-Trichlorophenol	U	U	U					10	1
2,4-Dichlorophenol	U	U	U					10	5
2,4-Dimethylphenol	U	U	U					10	50
2,4-Dinitrophenol	UJ	U	U					20	10
2,4-Dinitrotoluene	U	U	U					10	5
2,6-Dinitrotoluene	U	U	U					10	5
2-Chloronaphthalene	U	U	U					10	10
2-Chlorophenol	U	U	U					10	1
2-Methylnaphthalene	U	U	U					10	--
2-Methylphenol (o-Cresol)	U	U	U					10	1
2-Nitroaniline	U	U	U					20	5
2-Nitrophenol	U	U	U					10	1
3,3'-Dichlorobenzidine	U	U	U					10	5
3-Nitroaniline	U	U	U					20	5
4,6-Dinitro-2-methylphenol	UJ	U	U					20	1
4-Bromophenyl Phenyl Ether	U	U	U					10	--
4-Chloro-3-methylphenol	U	U	U					10	1
4-Chloroaniline	U	U	U					10	5
4-Chlorophenyl Phenyl Ether	U	U	U					10	--
4-Methylphenol (p-Cresol)	U	U	U					10	1
4-Nitroaniline	U	U	U					20	5
4-Nitrophenol	U	U	U					20	1
Acenaphthene	U	U	U					10	20
Acenaphthylene	U	U	U					10	--
Anthracene	U	U	U					10	50
Benzo(a)anthracene	U	U	U					10	0.002
Benzo(a)pyrene	U	U	U					10	--
Benzo(b)fluoranthene	U	U	U					10	0.002
Benzo(g,h,i)perylene	U	U	U					10	--
Benzo(k)fluoranthene	U	U	U					10	0.002
Benzyl Butyl Phthalate	U	U	U					10	50
bis(2-Chloroethoxy) Methane	U	U	U					10	5
bis(2-Chloroethyl) Ether	UJ	U	U					10	1
bis(2-Chloroisopropyl) Ether	U	U	U					10	--
bis(2-Ethylhexyl) Phthalate	U*	U	U					10	5
Carbazole	U	U	U					10	--
Chrysene	U	U	U					10	0.002
Dibenz(a,h)anthracene	U	U	U					10	--
Dibenzofuran	U	U	U					10	--
Diethyl Phthalate	U	U	U					10	50
Dimethyl Phthalate	U	U	U					10	50
Di-n-Butyl Phthalate	U	U	1.3 J					10	50
Di-n-Octylphthalate	U	U	U					10	50
Fluoranthene	U	U	U					10	50
Fluorene	U	U	U					10	50
Hexachlorobenzene	U	U	U					10	0.04
Hexachlorobutadiene	U	U	U					10	0.5
Hexachlorocyclopentadiene	UJ	U	U					10	5
Hexachloroethane	U	U	U					10	5
Indeno(1,2,3-c,d)pyrene	U	U	U					10	0.002
Isophorone	U	U	U					10	50
Naphthalene	U	U	U					10	10
Nitrobenzene	U	U	U					10	0.4
N-Nitrosodi-n-propylamine	U	U	U					10	--
N-Nitrosodiphenylamine	U	U	U					20	50
Pentachlorophenol	UJ	U	U					10	1
Phenanthrene	U	U	U					10	50
Phenol	U	U	U					10	1
Pyrene	U	U	U					10	50
Total Semivolatile Organic Compounds	0	0	1.3					--	--

Qualifiers:

U: Not detected

J: Estimated value or limit

UJ: Not detected, value estimated due to validation criteria

U*: 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	NYSDEC CLASS GA
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/5/2012	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
						(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-Nitrosodi-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*: 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	MW-06	MW-06	MW-06	MW-06	MW-06	CONTRACT	NYSDEC CLASS GA
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013	9/5/2013	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
								(ug/l)	(ug/l)
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	UJ	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U*	U	U	10	5
Carbazole	U	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U	U	1.1 J	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	U	10	5
Hexachloroethane	U	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	U	U	10	0.4
N-Nitrosodi-n-propylamine	U	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	U	10	1
Phenanthrene	U	U	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	0	1.1	--	--

Qualifiers:

U: Not detected

J: Estimated value or limit

UJ: Not detected, value estimated due to validation criteria

U*: 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	MW-07	CONTRACT	NYSDEC CLASS GA
Date Collected	8/18/2010	4/25/2011	9/27/2011	4/12/2012	9/5/2012	4/4/2013	9/5/2013	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
								(ug/l)	(ug/l)
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	10	5
1,2-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,3-Dichlorobenzene	U	U	U	U	U	U	U	10	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	10	3
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	20	1
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	10	1
2,4-Dichlorophenol	U	U	U	U	U	U	U	10	5
2,4-Dimethylphenol	U	U	U	U	U	U	U	10	50
2,4-Dinitrophenol	U	U	U	U	UJ	U	U	20	10
2,4-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2,6-Dinitrotoluene	U	U	U	U	U	U	U	10	5
2-Chloronaphthalene	U	U	U	U	U	U	U	10	10
2-Chlorophenol	U	U	U	U	U	U	U	10	1
2-Methylnaphthalene	U	U	U	U	U	U	U	10	--
2-Methylphenol (o-Cresol)	U	U	U	U	U	U	U	10	1
2-Nitroaniline	U	U	U	U	U	U	U	20	5
2-Nitrophenol	U	U	U	U	U	U	U	10	1
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	10	5
3-Nitroaniline	U	U	U	U	U	U	U	20	5
4,6-Dinitro-2-methylphenol	U	UJ	U	U	UJ	U	U	20	1
4-Bromophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	10	1
4-Chloroaniline	U	U	U	U	U	U	U	10	5
4-Chlorophenyl Phenyl Ether	U	U	U	U	U	U	U	10	--
4-Methylphenol (p-Cresol)	U	U	U	U	U	U	U	10	1
4-Nitroaniline	U	U	U	U	U	U	U	20	5
4-Nitrophenol	U	U	U	U	U	U	U	20	1
Acenaphthene	U	U	U	U	U	U	U	10	20
Acenaphthylene	U	U	U	U	U	U	U	10	--
Anthracene	U	U	U	U	U	U	U	10	50
Benzo(a)anthracene	U	U	U	U	U	U	U	10	0.002
Benzo(a)pyrene	U	U	U	U	U	U	U	10	--
Benzo(b)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	10	--
Benzo(k)fluoranthene	U	U	U	U	U	U	U	10	0.002
Benzyl Butyl Phthalate	U	U	U	U	U	U	U	10	50
bis(2-Chloroethoxy) Methane	U	U	U	U	U	U	U	10	5
bis(2-Chloroethyl) Ether	U	U	U	U	U	U	U	10	1
bis(2-Chloroisopropyl) Ether	U	U	U	U	U	U	U	10	--
bis(2-Ethylhexyl) Phthalate	U	U	U	U	U	U	U	10	5
Carbazole	U	U	U	U	U	U	U	10	--
Chrysene	U	U	U	U	U	U	U	10	0.002
Dibenz(a,h)anthracene	U	U	U	U	U	U	U	10	--
Dibenzofuran	U	U	U	U	U	U	U	10	--
Diethyl Phthalate	U	U	U	U	U	U	U	10	50
Dimethyl Phthalate	U	U	U	U	U	U	U	10	50
Di-n-Butyl Phthalate	U	U	U	U	U*	U	1.2 J	10	50
Di-n-Octylphthalate	U	U	U	U	U	U	U	10	50
Fluoranthene	U	U	U	U	U	U	U	10	50
Fluorene	U	U	U	U	U	U	U	10	50
Hexachlorobenzene	U	U	U	U	U	U	U	10	0.04
Hexachlorobutadiene	U	U	U	U	U	U	U	10	0.5
Hexachlorocyclopentadiene	U	UJ	U	U	UJ	U	U	10	5
Hexachloroethane	U	U	U	U	U	U	U	10	5
Indeno(1,2,3-c,d)pyrene	U	U	U	U	U	U	U	10	0.002
Isophorone	U	U	U	U	U	U	U	10	50
Naphthalene	U	U	U	U	U	U	U	10	10
Nitrobenzene	U	U	U	U	U	U	U	10	0.4
N-Nitrosodi-n-propylamine	U	U	U	U	U	U	U	10	--
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	20	50
Pentachlorophenol	U	U	U	U	UJ	U	U	10	1
Phenanthrene	U	U	U	U	U	U	U	10	50
Phenol	U	U	U	U	U	U	U	10	1
Pyrene	U	U	U	U	U	U	U	10	50
Total Semivolatile Organic Compounds	0	0	0	0	0	0	1.2	--	--

Qualifiers:

U: Not detected

J: Estimated value or limit

UJ: Not detected, value estimated due to validation criteria

U*: 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 Date Collected Dilution Factor Units	MW-08 8/18/2010 1 ug/l	MW-08 4/26/2011 1 ug/l	MW-08 9/28/2011 1 ug/l	MW-08 4/13/2012 1 ug/l	MW-08 9/6/2012 1 ug/l	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES (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-Nitrosodi-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*: 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-09	MW-09	MW-09	MW-09	MW-09	CONTRACT	NYSDEC CLASS GA
Date Collected	8/19/2010	4/25/2011	9/27/2011	4/13/2012	9/6/2012	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
						(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-Nitrosodi-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*: 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-10	MW-10	MW-10	MW-10	MW-10	CONTRACT	NYSDEC CLASS GA
Date Collected	8/18/2010	4/26/2011	9/27/2011	4/12/2012	9/11/2012	REQUIRED	GROUNDWATER
Dilution Factor	1	1	1	1	1	DETECTION	STANDARDS /
Units	ug/l	ug/l	ug/l	ug/l	ug/l	LIMIT	GUIDANCE VALUES
						(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-Nitrosodi-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*: Result qualified as non-detect based on validation criteria

Notes:

ug/l: Micrograms per liter

--: Not established

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	CONTRACT REQUIRED DETECTION LIMIT	NYSDEC CLASS GA GROUNDWATER STANDARDS / GUIDANCE VALUES
Date Collected	8/19/2010	4/26/2011	9/28/2011	4/12/2012	9/7/2012	4/5/2013	9/5/2013	(ug/l)	(ug/l)
Dilution Factor	1	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
Aluminum	U	--	U	U	U	U	U	200	--
Antimony	U	U	U	U	U	U	U	20	3 ST
Arsenic	U	U	U	U	7.4 B	U	U	20	25 ST
Barium	21.4 B	--	24.5 B	28.9 B	25.5 B	37.6 B	UB	200	1,000 ST
Beryllium	U	U	U	U	U	U	U	5	3 GV
Cadmium	U	U	U	U	U	U	U	5	5 ST
Calcium	15,900	--	31,700	30,200	52,600	51,100	41,800	800	--
Chromium, Total	U	2.1 B	U	1.4 B	1.9 B	2.8 B	3.4 B	20	50 ST
Cobalt	U	--	U	U	0.91 B	U	U	50	--
Copper	U	U	U	U	4.4 B	U	U	30	200 ST
Iron	U	U	UJ	77.3 B	U*	33.8 BJ	U	200	300 ST
Lead	U	U	U	U	U	U	U	10	25 ST
Magnesium	1,490	--	2,380	2,750	5,360	3,860	3,450	500	35,000 GV
Manganese	51.1	--	33.0 B	700	2,260	894	798	50	300 ST
Mercury	U	U	U	U	UB	U	U	0.20	0.7 ST
Nickel	U	U	U	U	0.87 B	1.3 B	U	50	100 ST
Potassium	28,800	--	20,000	16,000	15,000	20,800	19,600 J	100	--
Selenium	U	U	U	U	U	U	U	30	10 ST
Silver	U	U	U	U	U	U	U	30	50 ST
Sodium	25,900	--	28,000	34,700	29,500	60,200	27,300	100	20,000 ST
Thallium	U	U	U	U	U	U	U	20	0.5 GV
Vanadium	U	--	U	U	U	U	U	50	--
Zinc	11.0 B	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	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	76	--	--	92	140	110	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-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	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					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						
Dilution Factor	1	1	1						
Units	ug/l	ug/l	ug/l						
Aluminum	U	1,080	391					200	--
Antimony	U	U	U					20	3 ST
Arsenic	U	U	U					20	25 ST
Barium	25.8 B	57.6 B	55.7 B					200	1,000 ST
Beryllium	U	U	U					5	3 GV
Cadmium	U	U	U					5	5 ST
Calcium	19,400	32,800	41,400					800	--
Chromium, Total	26.6	32.4	77.1					20	50 ST
Cobalt	U	1.1 B	U					50	--
Copper	U	9.9 B	13.3 B					30	200 ST
Iron	UB	2,070 J	558					200	300 ST
Lead	U	U	4.4 B					10	25 ST
Magnesium	1,710	3,490	3,680					500	35,000 GV
Manganese	U	33.1 B	15 B					50	300 ST
Mercury	UB	U	U					0.20	0.7 ST
Nickel	1.4 B	4.4 B	UB					50	100 ST
Potassium	8,280	12,100	14,300 J					100	--
Selenium	U	U	U					30	10 ST
Silver	U	U	U					30	50 ST
Sodium	16,400	24,700	71,700					100	20,000 ST
Thallium	U	U	U					20	0.5 GV
Vanadium	U	2.3 B	1.9 B					50	--
Zinc	U	8.0 B	11.8 B					50	2,000 GV
Total Iron and Manganese	U	2,103.1	573					--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	59	81	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)

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					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						
Dilution Factor	1	1	1						
Units	ug/l	ug/l	ug/l						
Aluminum	U	486	157 B					200	--
Antimony	U	U	U					20	3 ST
Arsenic	6.6 B	4.3 B	U					20	25 ST
Barium	22.7 B	24.7 B	UB					200	1,000 ST
Beryllium	U	U	U					5	3 GV
Cadmium	U	U	U					5	5 ST
Calcium	45,500	40,700	34,400					800	--
Chromium, Total	4.6 B	4.1 B	2,720					20	50 ST
Cobalt	U	1.3 B	UB					50	--
Copper	14.3 B	64.0	44.4					30	200 ST
Iron	91.5 B	999 J	309					200	300 ST
Lead	U	U	U					10	25 ST
Magnesium	3,670	3,610	2,870					500	35,000 GV
Manganese	U	41.6 B	55.3					50	300 ST
Mercury	UB	U	0.12 B					0.20	0.7 ST
Nickel	1.8 B	4.8 B	UB					50	100 ST
Potassium	18,800	16,900	13,600 J					100	--
Selenium	U	U	U					30	10 ST
Silver	U	U	U					30	50 ST
Sodium	42,000	29,200	40,900					100	20,000 ST
Thallium	U	U	U					20	0.5 GV
Vanadium	U	U	3.6 B					50	--
Zinc	10.2 B	11.0 B	12.9 B					50	2,000 GV
Total Iron and Manganese	91.5	1,040.6	364.3					--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	110	85	100					--	--

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	U	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

J : 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	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		
Dilution Factor	1	1	1	1	1	1	1		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
Aluminum	U	--	U	174 B	123 B	U	214	200	--
Antimony	U	U	U	U	U	U	U	20	3 ST
Arsenic	U	U	U	UB	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	200	1,000 ST
Beryllium	U	U	U	U	U	U	U	5	3 GV
Cadmium	U	U	U	U	U	U	U	5	5 ST
Calcium	36,200	--	57,300	51,400	34,800	54,900	81,500	800	--
Chromium, Total	U	U	U	1.3 B	2.3 B	0.77 B	1.9 B	20	50 ST
Cobalt	U	--	1.4 B	0.72 B	UB	1.3 B	UB	50	--
Copper	U	U	U	4.8 B	4.3 B	8.8 B	15.6 B	30	200 ST
Iron	73.4 B	119 B	UJ	519	247	584 J	615	200	300 ST
Lead	U	U	U	U	U	U	4.3 B	10	25 ST
Magnesium	2,610	--	4,290	4,220	2,540	5,570	7,280	500	35,000 GV
Manganese	U	--	24.0 B	13.5 B	10.6 B	U	22.9 B	50	300 ST
Mercury	U	U	U	0.074 B	UB	0.037 B	0.09 B	0.20	0.7 ST
Nickel	U	U	U	0.86 B	1.3 B	4.2 B	UB	50	100 ST
Potassium	19,900	--	19,400	22,800	29,100	13,100	23,200 J	100	--
Selenium	U	U	U	U	U	U	U	30	10 ST
Silver	U	U	U	U	U	U	U	30	50 ST
Sodium	24,200	--	33,500	36,800	29,600	27,800	70,700	100	20,000 ST
Thallium	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	50	--
Zinc	12.5 B	U	U	U	11.5 B	U	9.2 B	50	2,000 GV
Total Iron and Manganese	73.4	119	24	532.5	257.6	584	637.9	--	500 ST
Alkalinity, Total (as CaCO3) in mg/L	120	--	130	150	120	91	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:

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

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-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

J : 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-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

 : 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

: Exceeds Class GA Groundwater Standard (ST) or Guidance Value (GV)

APPENDIX B-1

FIELD FORMS FIELD OBSERVATION LOGS

FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE September 5, 2013

SAMPLE ID: MW-01 9/5/13
WELL ID: MW-01
SAMPLERS: Keith Robins

Time On-site: 1:30 p.m. Time Off-site: 3:00 p.m.

Depth of well (from top of casing) 17.20 ft Time: _____
Initial static water level (from top of casing) 9.41 ft Time: _____

Purging Method

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

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: 7.79 ft. of water x 0.65 = 5.06 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	7.30	21.52	0.368	0.7	2.16	96
2,500 ml	7.30	21.15	0.378	0	0.90	95
5,000 ml	7.15	20.91	0.388	0	0.87	93
7,500 ml	6.97	20.76	0.397	0	1.07	92
10,000 ml	7.04	20.52	0.407	0	1.30	91
12,500 ml	7.29	20.47	0.409	0	1.33	91
15,000 ml	7.39	20.42	0.409	0	1.30	91

Sampling

Time of Sample Collection: 2:25 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, mid 70s
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: 9.41'. Contained purge water in 55-gallon drum. PID= 0.0 ppm.

FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE September 5, 2013

SAMPLE ID: MW-03R 9/5/13
WELL ID: MW-03R
SAMPLERS: Keith Robins

Time On-site: 12:00 p.m.
Time Off-site: 1:15 p.m.

Depth of well (from top of casing) 19.88 ft Time: _____
Initial static water level (from top of casing) 11.64 ft Time: _____

Purging Method

Airlift	_____	Centrifugal	_____
Bailer	_____	Pos. Disp.	_____
Submersible Pump	_____	Disposable Bladder Pump (Low Flow)	<u>X</u>

Well Volume Calculation:

2 in. casing:	<u>8.24</u> ft. of water x 0.16 =	<u>1.3</u> 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: 4.6 gal. >3 volumes: yes X no _____ 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	7.36	20.86	0.644	129	2.24	64
2,500 ml	7.50	20.00	0.637	71.6	1.23	58
5,000 ml	7.47	19.95	0.612	49.8	1.35	56
7,500 ml	7.34	19.70	0.585	44.3	1.42	56
10,000 ml	7.30	19.74	0.588	32.1	1.32	58
12,500 ml	7.41	20.28	0.598	20.9	1.15	58
15,000 ml	7.42	20.52	0.592	20.3	1.30	59
17,500 ml	7.44	20.51	0.588	16.3	1.25	60

Sampling

Time of Sample Collection: 12:45 p.m.

Method:

_____ Stainless steel bailer	<u>X</u>	TCL VOCs	602 _____	503 _____	Other _____
_____ Teflon bailer	<u>X</u>	TCL SVOCs			
_____ Pos. Disp. Pump	<u>X</u>	Target Analyte List Metals			
_____ Disposable bailer	<u>X</u>	Alkalinity			
_____ Dedicated pump					
<u>X</u> Other: Disposable Bladder Pump (Low Flow)					

Observations

Weather/Temperature: Partly cloudy skies, mid 70s
Sample description: clear

Free Product? yes	_____	no	<u>X</u>	describe	_____
Sheen? yes	_____	no	<u>X</u>	describe	_____
Odor? yes	_____	no	<u>X</u>	describe	_____

Comments:

Flow rate: 500 ml/min. Final DTW: 11.65'. Contained purge water in 55-gallon drum. PID= 0.1 ppm.

FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE September 5, 2013

SAMPLE ID: MW-04R 9/5/13
WELL ID: MW-04R
SAMPLERS: Keith Robins

Time On-site: 11:00 a.m. Time Off-site: 12:00 p.m.

Depth of well (from top of casing) 19.85 ft Time: _____
Initial static water level (from top of casing) 11.59 ft Time: _____

Purging Method

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

Well Volume Calculation:

2 in. casing: 8.26 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	6.99	21.20	0.282	52.4	9.48	27
2,500 ml	7.28	20.17	0.413	16.1	2.62	38
5,000 ml	6.93	19.56	0.416	4.2	1.98	44
7,500 ml	6.94	19.54	0.417	4	1.87	43
10,000 ml	7.02	19.58	0.418	1.9	1.80	46
12,500 ml	7.04	19.55	0.418	2	1.81	46

Sampling

Time of Sample Collection: 11:40 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 70s
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: 11.59'. Contained purge water in 55-gallon drum. PID= 0.0 ppm.

FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE September 5, 2013

SAMPLE ID: MW-06 9/5/13
WELL ID: MW-06
SAMPLERS: Keith Robins

Time On-site: 9:00 a.m. Time Off-site: 10:15 a.m.

Depth of well (from top of casing) 21.50 ft Time: _____
Initial static water level (from top of casing) 11.49 ft Time: _____

Purging Method

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

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: 10.01 ft. of water x 0.65 = 6.5 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	7.20	18.60	0.870	10.6	1.82	170
2,500 ml	7.26	18.40	0.888	9.4	0.91	168
5,000 ml	7.26	18.21	0.894	7.8	0.69	165
7,500 ml	7.25	18.24	0.895	7.6	0.66	164
10,000 ml	7.23	18.17	0.893	8	0.56	162
12,500 ml	7.20	18.17	0.891	6.7	0.51	160
15,000 ml	7.21	18.15	0.890	5.2	0.47	156

Sampling

Time of Sample Collection: 9:50 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 70s
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: 11.50'. Contained purge water in 55-gallon drum. Collected MS/MSD. PID= 0.1 ppm.

FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE PSC - Chemical Pollution Control, LLC of NY DATE September 5, 2013

SAMPLE ID: MW-07 9/5/13
 WELL ID: MW-07
 SAMPLERS: Keith Robins

Time On-site: 7:30 a.m. Time Off-site: 8:45 a.m.

Depth of well (from top of casing) 21.50 ft Time: _____
 Initial static water level (from top of casing) 11.45 ft Time: _____

Purging Method

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

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: 10.05 ft. of water x 0.65 = 6.5 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	6.79	18.12	0.684	3.2	2.84	178
2,500 ml	6.82	18.01	0.674	2.1	0.94	164
5,000 ml	6.86	18.02	0.673	2	0.93	164
7,500 ml	6.97	18.02	0.671	1.9	0.78	160
10,000 ml	7.03	18.00	0.669	1.5	0.73	157
12,500 ml	7.04	18.08	0.666	1.3	0.67	153
15,000 ml	7.05	18.08	0.665	0.8	0.67	151

Sampling

Time of Sample Collection: 8:30 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, 70s

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: 11.46'. Collected Blind Duplicate sample. Contained purge water in 55-gallon drum. PID=1.2 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 September 5, 2013

• _____

• _____

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

Project Number: 2786ii-D

Calibrated by: K. Robins

[illegible]

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

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

Comments:

Inspector Signature

Keith Robins

Date of Inspection

September 5, 2013

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-03R

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
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 Roleno

Date of Inspection

September 5, 2013

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-04R

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

Comments: _____

Inspector Signature

Keith Roberts

Date of Inspection

September 5, 2013

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-06

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

Comments: _____

Inspector Signature Keith Robins

Date of Inspection September 5, 2013

MONITORING WELL INSPECTION CHECKLIST

Well No. MW-07

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

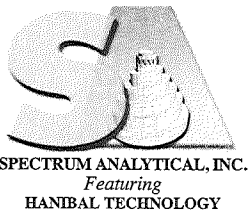
Comments:

Inspector Signature Keith Rolins

Date of Inspection September 5, 2013

APPENDIX C

CHAIN OF CUSTODY FORM



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: Dvirka + Bertolucci Engineers
330 Crossways Park Drive
Woodbury MA 01797

Invoice To: Dvirka + Bertolucci Engineers
330 Crossways Park Drive
Woodbury MA 01797

Project No.: 2786
 Site Name: PSC - 120 South Footh St. Bayshore
 Location: Bayshore State: NY
 Sampler(s): Keith Robins

Telephone #: 566 364-9590
 Project Mgr. Mike Hofgren

P.O. No.: 2786 RQN: _____

List preservative code below:

1a 2 4

QA/QC Reporting Notes:

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

Containers:

Analyses:

QA/QC Reporting Level

☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☒ Other Category B
and Equis
 State-specific reporting standards:

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TEL VOCs	TCL SVOCs	TAL metals	Aikant						
01	MW-07-9/5/13	9/5/13	830am	G	GW	2	2	-	2	✓	✓	✓	✓						
02	Blind Duplicate - 9/5/13	9/5/13	0000	G	GW	2	2	-	2	✓	✓	✓	✓						
03	MW-06-9/5/13	9/5/13	950am	G	GW	2	2	-	2	✓	✓	✓	✓						
03 04	MW-06-9/5/13 MS	9/5/13	950am	G	GW	2	2	-	2	✓	✓	✓	✓						RUN MS
03 05	MW-06-9/5/13 MSD	9/5/13	950am	G	GW	2	2	-	2	✓	✓	✓	✓						RUN MSD
04 06	MW-04R-9/5/13	9/5/13	1140am	G	GW	2	2	-	2	✓	✓	✓	✓						
05 07	MW-03R-9/5/13	9/5/13	1245pm	G	GW	2	2	-	2	✓	✓	✓	✓						
06 08	MW-01-9/5/13	9/5/13	225pm	G	GW	2	2	-	2	✓	✓	✓	✓						
07 09	Field Blank-9/5/13	9/5/13	300pm	G	AQ	2	2	-	2	✓	✓	✓	✓						
08 10	Trip Blank-9/5/13	9/5/13	-	Blank	W	2	-	-	-	✓	-	-	-						VOCs only

Relinquished by:

Received by:

Date:

Time:

Temp°C

☐ EDD Format

☒ E-mail to M.Hofgren@db-ery.com

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

APPENDIX D

DATA VALIDATION FORMS

DATA VALIDATION CHECKLIST

Project Name:	PSC - Chemical Pollution Control, LLC of New York Semiannual Groundwater Monitoring Program –September 2013 Sampling Event	
Project Number:	2786ii-D	
Sample Date(s):	September 5, 2013	
Sample Team:	Keith Robins	
Matrix/Number of Samples:	<u>Water/ 5</u> <u>Soil/ 0</u> <u>Field Duplicates/ 1</u> <u>Trip Blanks/ 1</u> <u>Field Blanks/ 1</u>	
Analyzing Laboratory:	Spectrum Analytical, Inc., Warwick, RI	
Analyses:	<u>Volatile Organic Compounds (VOCs): by SW-846 8260C</u> <u>Semivolatile Organic Compounds (SVOCs): by SW-846 8270D</u> <u>Metals: TAL by SW-846 Method 6010C and mercury by SW-846 7470A</u> <u>Wet Chemistry: Alkalinity by Method SM 2320B</u>	
Laboratory Report No:	M1648	Date: 9/25/2013

ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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.

**Custody Numbers: M1648
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					VOCs	SVOCs	Pesticides/ PCBs	Metals/ Wet
MW-07	M1648-01	Water	9/5/13		X	X	--	X/X
Blind Duplicate	M1648-02	Water	9/5/13	MW-07	X	X	--	X/X
MW-06	M1648-03	Water	9/5/13		X	X	--	X/X
MW-04R	M1648-04	Water	9/5/13		X	X	--	X/X
MW-03R	M1648-05	Water	9/5/13		X	X	--	X/X
MW-01	M1648-06	Water	9/5/13		X	X	--	X/X
Field Blank	M1648-07	Water	9/5/13		X	X	--	X/X
Trip Blank	M1648-08	Water	9/5/13		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. Laboratory 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
%R - percent recovery

%D - percent difference
%RSD - percent relative standard deviation

RRF - relative response factor
RPD - relative percent difference

Comments:

Performance was acceptable with the following exceptions:

6. The %R was below QC limits for xylene in the laboratory spike sample associated with samples Trip Blank and Field Blank. Xylene was qualified as an estimated detection limit (UJ) in samples Trip Blank and Field Blank.
10. The %RSDs for total xylene and hexachlorobutadiene was above the QC limits in the initial calibration. Total xylene and hexachlorobutadiene were not detected in the associated samples; therefore, qualification of the data was not required.
11. The %Ds for hexachlorobutadiene and 1,2,3-trichlorobenzene was above the QC limits in the continuing calibration associated with samples Trip Blank and Field Blank. Hexachlorobutadiene and 1,2,3-trichlorobenzene were qualified as an estimated detection limit (UJ) in samples Trip Blank and Field Blank.

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. Laboratory 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
%R – percent recovery

%D – percent difference
%RSD – percent relative standard deviation

RRF – relative response factor
RPD – relative percent difference

Comments:

Performance was acceptable, with the following exception:

- The RPDs for 3,3'-dichlorobenzidine and 4-nitrophenol were above QC limits in the MS/MSD. 3,3'-Dichlorobenzidine and 4-nitrophenol were not detected in the associated samples; 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 exceptions:

- 2A&B. Barium, cobalt, nickel, potassium and sodium were detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit. Based on sample concentrations, the following were qualified as non-detect (UB): barium in samples MW-01, MW-04R, MW-07 and Blind Duplicate, and cobalt and nickel (if detected) in all samples.
11. The %Ds were above the QC limits for barium and potassium in the serial dilution. Barium and potassium were qualified as estimated (J/UJ) in all samples.
12. Sample MW-07 was duplicated in the field and labeled Blind Duplicate. Based on the concentrations, chromium and iron were qualified as estimated (J) in samples MW-07 and Blind Duplicate.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: M1648

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
Trip Blank and Field Blank	Xylene	UJ	The %R was below QC limits in the laboratory spike
Trip Blank and Field Blank	Hexachlorobutadiene and 1,2,3-trichlorobenzene	UJ	%D was above the QC limits in the continuing calibration
SVOCs			
No qualification of the data was necessary.			
Metals			
MW-01, MW-04R, MW-07 and Blind Duplicate	Barium	UB	Detected in the field blank, preparation blank and/or initial calibration blank above the instrument detection limit
All samples	Cobalt and nickel		
All samples	Barium and potassium	J/UJ	%Ds were above the QC limits
MW-07 and Blind Duplicate	Chromium and iron	J	Field duplicated results

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 10/3/2013
VALIDATOR'S SIGNATURE:	<i>R. Petrella for 10/4/2013</i> <i>D. Brown</i>