ARCADIS Design & Consultancy for natural and built assets

Ms. Sarah Saucier, P.E.
Environmental Engineer I
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, New York 12233-7014

ARCADIS U.S., Inc.
6723 Towpath Road
P O Box 66
Syracuse
New York 13214-0066
Tel 315 446 9120
Fax 315 449 4111
www.arcadis.com

Subject:
Post ISS Groundwater Monitoring Results
NYSEG Cortland-Homer Former MGP Site
Homer, New York
NYSDEC Site # 7-12-005

ENVIRONMENT

Date:
November 6, 2015

Contact:
John C. Brussel, P.E.

Phone:
315.671.9441

Email:
John.Brussel@arcadis.com

Our ref:
B0013123.0010 #5

Dear Ms. Saucier:

On behalf of New York State Electric & Gas Corporation (NYSEG), this letter summarizes the results of the September 2015 groundwater monitoring event completed at the Cortland-Homer former manufactured gas plant (MGP) site in Homer, New York (the Site). The monitoring was performed to provide additional information regarding groundwater conditions at selected existing monitoring wells following the June 2013 completion of remedial construction at the Site. An initial round of post-remediation groundwater monitoring was previously performed in November 2013.

The September 2015 monitoring event was conducted by Arcadis in response to the New York State Department of Environmental Conservation's (NYSDEC's) request in a February 27, 2015 letter to NYSEG. The monitoring was performed in accordance with the protocols presented in the NYSDEC-approved Baseline Groundwater Monitoring Work Plan contained in a June 13, 2012 letter from Arcadis to the NYSDEC.

As summarized herein, the monitoring data indicate that the area of groundwater impacted by the former MGP is relatively small, the exceedances of groundwater quality standards/guidance values are relatively minor, and groundwater quality continues to improve. The data support conducting any additional groundwater monitoring on a reduced frequency and decommissioning selected monitoring wells.

Relevant background information is presented below, followed by a summary of the post-ISS groundwater monitoring activities and results.

I. BACKGROUND

Remedial activities at the Site were substantially completed between July 2012 and February 2013, and final site restoration was performed in May/June 2013. The remedial activities involved in-situ soil solidification (ISS) of approximately 55,000 cubic yards (cy) of soil in two separate operable units on opposite sides of U.S Route 11 (i.e., Operable Units OU-1 and OU-2 located on the west and east sides of the roadway, respectively). ISS treatment columns extended vertically into an underlying silt/clay layer up to 50 feet below ground surface. ISS was performed to encapsulate coal tar dense non-aqueous phase liquid (DNAPL) and site-related chemical constituents in soil to reduce or eliminate: (1) the release of constituents from soil to groundwater; and (2) migration of coal tar DNAPL beyond site boundaries. The ISS monoliths on either side of the road were connected by two vertical barrier walls (steel sheet pile walls) extending beneath Route11 to divert groundwater around potentially-impacted soils below the roadway.

Baseline groundwater monitoring was performed in June 2012, approximately one month prior to the start of remedial construction, and one round of post-remediation groundwater monitoring was performed in November 2013.

As summarized in a February 20, 2014 letter from Arcadis to the NYSDEC, an investigation was performed between October and December 2013 to assess the nature, extent, and recoverability of petroleum-based light non-aqueous phase liquid (LNAPL) encountered during remediation at the southeast corner of Operable Unit 1 (OU-1), around monitoring well MW-11. This work involved the installation and development of three new groundwater monitoring wells (MW-31A, MW-32A, and MW-33, as shown on Figure 1), followed by gauging at each new well and five other existing wells weekly throughout November and December 2013. The findings indicated that recoverable LNAPL was limited to the immediate vicinity of MW-11. Because the well was not ideally constructed to recover LNAPL, an additional monitoring well (MW-36) was subsequently constructed adjacent to MW-11 in April 2014 with NYSDEC's approval (refer to an April 4, 2014 letter from NYSDEC to NYSEG). Additional LNAPL gauging was performed weekly in April and May 2014 and then monthly from June 2014 through January 2015. The LNAPL gauging results are summarized in a table provided in January 30, 2015 e-mail correspondence from Arcadis to the NYSDEC. As indicated by the results, no recoverable LNAPL was detected during the gauging period except for 0.7 gallons from MW-11 (mixture of LNAPL and water).

II. GROUNDWATER MONITORING ACTIVITIES

The September 2015 groundwater monitoring event involved: (1) collecting a synoptic, site-wide round of water-level measurements; and (2) sampling groundwater from wells in the monitoring well network (refer to Figure 1 for the well locations). Arcadis obtained water level measurements on September 14, 2015 and performed the groundwater sampling between September 14 and 16, 2015. The fieldwork was performed in accordance with the protocols described in Attachment B of the Baseline Groundwater Monitoring Work Plan (Fluid Level Measurement and Groundwater Sampling Field Procedures).

Prior to the start of sampling, Arcadis obtained water level measurements from 20 monitoring wells. A listing of the wells from which measurements were obtained is provided in Table 1. Depth-to-bottom measurements were obtained in each of the wells during the monitoring event. Measurements were not obtained from two wells that were gauged as part of the previous (November 2013) monitoring event (MW-21 and MW-27D) because these wells were destroyed by demolition of the motel formerly located south of OU-2. Portions of the former well surface completions for MW-21 and MW-27D were observed scattered near the former well locations.

The water level measurements obtained at each well were converted to groundwater elevations by subtracting the depth to groundwater from the surveyed well casing elevation. The water level measurements and elevations are presented in Table 1. The groundwater elevations were used to prepare a map of the water table (Figure 1). Similar to the baseline and first post-remediation monitoring event, the September 2015 groundwater elevations indicate that groundwater near the Site flows toward the east/southeast.

Groundwater samples were collected from each well where a water level measurement was obtained except for LNAPL monitoring wells MW-31, MW-32, and MW-33. These wells were not sampled because they were installed only for purposes of assessing the nature, extent, and recoverability of LNAPL near MW-11. Because no LNAPL was identified in MW-11 (this was the first time that LNAPL had not been identified in the well), a groundwater sample was collected from MW-11.

The groundwater samples were collected using the “low-flow” method described in the Baseline Groundwater Monitoring Work Plan. Field parameter measurements obtained during well purging prior to sampling are presented on the groundwater sampling logs included as Attachment A to this letter.

The groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts where they were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), and total cyanide. One set

of quality assurance/quality control samples, consisting of a field duplicate, matrix spike, matrix spike duplicate, and a trip blank, were also collected and analyzed.

III. GROUNDWATER MONITORING RESULTS

Arcadis validated the groundwater analytical results, and found the results to be of good quality and useable as intended. The data validation report, the full laboratory analytical data report (NYSDEC Analytical Services Protocol Category B data deliverables package), and electronic data deliverables (EDDs) are provided on the attached CD. The EDD is being e-mailed to the NYSDEC separately for upload to the NYSDEC's EQuIS database.

The validated groundwater analytical results are presented in Table 2. This table also provides the corresponding ambient water quality standards and guidance values for each analyte as presented in the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", last updated June 2004. Results that exceed these criteria are highlighted in the table. Groundwater analytical results for constituents exceeding the water quality standards/ guidance values are shown on Figure 2.

The groundwater analytical results are summarized as follows:

- BTEX were not identified at concentrations exceeding the groundwater quality standards in 10 of the 11 wells that were sampled. One BTEX constituent (benzene) was identified at MW-17 (just east of a former filling station within OU-2) at an estimated concentration of 5.3 parts per billion (ppb), which slightly exceeds the 1 ppb standard. The 5.3 ppb concentration is one to two orders of magnitude lower than the concentrations identified during both of the previous monitoring events (i.e., results were 14.1 ppb in November 2013 and 291 ppb in June 2012). It should also be noted that this was the first monitoring event in which no benzene was identified at well MW-14/MW-14R at a concentration exceeding the groundwater quality standard.

- PAHs were not identified at concentrations exceeding the groundwater quality standards or guidance values in 9 of the 11 wells that were sampled. Results for the two wells with PAH exceedances are summarized below:

    - *MW-11:* Only one PAH (chrysene) was identified in the September 2015 sample from MW-11. As indicated above, this well had not been sampled during previous monitoring events (due to LNAPL presence in the well), but no LNAPL was identified in September 2015. Chrysene was identified at an estimated concentration of 0.016 ppb, which only slightly exceeds the 0.002 ppb guidance value.

- *MW-17:* Only one PAH (acenaphthene) was identified in MW-17 at a concentration exceeding its corresponding standard or guidance value. The 22.1 ppb acenaphthene concentration identified in the September 2015 sample from MW-17 only slightly exceeds the 20 ppb guidance value and is an order of magnitude lower than the 168 ppb concentration identified in the baseline sample from MW-17. Napthalene was the only other PAH identified in the baseline sample from MW-17 (1,870 ppb). Naphthalene was identified in both post-ISS samples at estimated concentrations of 0.73 ppb (November 2013) and 0.34 ppb (September 2015), which are well-below both the 10 ppb guidance value and the 1,870 ppb concentration in the baseline sample.

- Total cyanide was not identified at concentrations exceeding the 200 ppb groundwater quality standard in 8 of the 11 wells that were sampled. Cyanide was identified at MW-11 (370 ppb), MW-12 (6,500 ppb) and MW-28S (270 ppb). The total cyanide concentrations at MW-12 and MW-28S were generally consistent or slightly higher than the concentrations identified during the previous monitoring events.

IV. CONCLUSIONS & RECOMMENDATIONS

Overall, the September 2015 post-remediation BTEX and PAH groundwater analytical results are less than both the baseline groundwater analytical results and first post-remediation (November 2013) groundwater analytical results. At the two locations where BTEX and PAH exceedances have been noted, the results now only slightly exceed groundwater quality standards/guidance values. The available analytical data indicate that cyanide concentrations in the few isolated wells are stable.

Based on the relatively small area of impacted groundwater, the relatively minor exceedances of groundwater quality standards/guidance values, the lack of groundwater use at and near the Site, and existing groundwater use laws codified in 10 NYCRR 5-1.31(b) that prohibit the installation of private wells where public supply is available (unless approval is expressly granted by the public water authority), the potential for human exposure to constituents in groundwater at this Site is limited. Based on the above considerations, groundwater remediation is not needed. NYSEG and Arcadis propose to further streamline the groundwater monitoring program, as follows:

1. Decommission monitoring wells that are no longer needed for gauging or sampling. This includes the 10 wells identified below:

    - Two wells west of OU-2 (MW-25 and MW-26, west of the railroad tracks).

- Two wells south of OU-1 (MW-29S and MW-29D, south of the former grocery store building).

- One well north of OU-1 (MW-30D, north of the ID Booth Building).

- Five wells east/southeast of OU-2 (MW-22, MW-23, MW-27S, MW-31, and MW-32).

Well decommissioning would be performed in accordance with the protocols presented in NYSDEC's policy document titled "CP-43: Groundwater Monitoring Well Decommissioning Policy", dated November 2009.

2. Conduct triennial (every three years) groundwater monitoring, consisting of water level gauging at all remaining wells and groundwater sampling at the same wells sampled as part of the September 2015 monitoring event, except MW-27S, MW-29S, and MW-29D (which will be decommissioned). A total of nine wells will be sampled (MW-6, MW-11, MW-12, MW-13, MW-14R, MW-17, MW-18, MW-28S, and MW-28D). As indicated in NYSDEC's February 27, 2015 letter, groundwater sampling will not be performed at MW-11 if measureable NAPL is encountered there.

Following NYSDEC review and approval of the recommendations above (with any changes if needed), NYSEG will revise the Site Management Plan to incorporate the revised groundwater monitoring program into the document.

Please feel free to contact Tracy Blazicek (NYSEG) at 607.762.8839 or me at 315.671.9441 if you have any comments/questions or need additional information.

Sincerely,

Arcadis of New York, Inc.

John C. Brussel

John C. Brussel, P.E.
Principal Engineer

Copies:
Tracy Blazicek, CHMM, NYSEG
Keith White, C.P.G., Arcadis

Attachments:

Table 1 – Summary of LNAPL and Water Level Gauging Data
Table 2 – Groundwater Analytical Results
Figure 1 – Groundwater Contours – September 14, 2015
Figure 2 – Groundwater Analytical Results
Attachment A – Groundwater Sampling Logs

TABLES

Table 1
Summary of LNAPL and Water Level Gauging Data

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site - Homer, New York

Monitoring Well ID	Top of Inner Casing (TIC) Elevation (feet AMSL)	Depth to Water (feet below TIC)			Depth to NAPL (feet below TIC)			Depth to Bottom (feet below TIC)			Approximate NAPL Thickness (feet)			Groundwater Elevation (feet amsl)		
		6/25/12	11/5/13	9/14/15	6/25/12	11/5/13	9/14/15	6/25/12	11/5/13	9/14/15	6/25/12	11/5/13	9/14/15	6/25/12	11/5/13	9/14/15
MW-1	1116.25	-	5.79	6.98	-	-	-	-	23.62	23.83	-	-	-	-	1110.46	1109.27
MW-6	1113.07	4.67	4.20	5.04	-	-	-	20.10	25.40	26.08	-	-	-	1108.40	1108.87	1108.03
MW-11	1114.97	6.68	6.05	7.31	6.46	5.75	-	11.16	-	11.50	0.22	0.30	-	1108.29	1109.19**	1107.66
MW-12	1115.23	6.46	5.61	6.51	-	-	-	11.38	11.60	11.60	-	-	-	1108.77	1109.62	1108.72
MW-13	1113.47	5.09	4.55	5.51	-	-	-	31.52	31.66	31.83	-	-	-	1108.38	1108.92	1107.96
MW-14	1112.74	4.32	-	-	-	-	-	10.34	-	-	-	-	-	1108.42	-	-
MW-14R	1112.78	-	4.09	4.88	-	-	-	-	13.05	13.01	-	-	-	-	1108.69	1107.90
MW-17	1114.75	6.68	6.12	6.86	-	-	-	10.46	10.50	10.58	-	-	-	1108.07	1108.63	1107.89
MW-18	1114.81	6.57	6.01	6.76	-	-	-	30.02	30.08	30.14	-	-	-	1108.24	1108.80	1108.05
MW-21	1112.89	4.68	4.16	well destroyed	-	-	-	36.73	36.95	well destroyed	-	-	-	1108.21	1108.73	-
MW-25*	1117.43	6.25	5.32	9.30	-	-	-	15.05	6.20	15.35	-	-	-	1111.18	1112.11	1108.13
MW-26	1118.00	-	7.62	8.81	-	-	-	-	61.51	61.73	-	-	-	-	1110.38	1109.19
MW-27S	1112.47	4.42	3.96	4.75	-	-	-	12.32	12.11	12.11	-	-	-	1108.05	1108.51	1107.72
MW-27D	1112.29	4.19	3.66	well destroyed	-	-	-	32.97	33.16	well destroyed	-	-	-	1108.10	1108.63	-
MW-28S	1111.68	3.34	2.77	3.58	-	-	-	13.07	13.22	13.25	-	-	-	1108.34	1108.91	1108.10
MW-28D	1111.50	3.22	2.65	6.43	-	-	-	21.64	26.80	26.79	-	-	-	1108.28	1108.85	1105.07
MW-29S	1113.82	-	4.73	5.91	-	-	-	-	14.79	14.82	-	-	-	-	1109.09	1107.91
MW-29D	1113.82	5.42	4.81	5.73	-	-	-	42.46	43.09	41.35	-	-	-	1108.40	1109.01	1108.09
MW-30S	1115.08	5.89	5.46	6.15	-	-	-	9.86	12.05	12.11	-	-	-	1109.19	1109.62	1108.93
MW-30D	1115.15	6.47	5.87	6.68	-	-	-	32.53	32.07	32.68	-	-	-	1108.68	1109.28	1108.47
MW-31A	1115.30	-	6.42	7.31	-	-	7.31	-	14.02	14.01	-	-	Trace	-	1108.88	1107.99
MW-32A	1115.78	-	6.75	7.77	-	-	7.71	-	14.42	-	-	-	0.06	-	1109.03	1108.01
MW-33	1116.17	-	7.10	8.02	-	-	-	-	13.59	13.53	-	-		-	1109.07	1108.15
MW-36	1114.96	-	-	7.16	-	-	-	-	-	13.40	-	-	-	-	-	1107.80

Notes:

1. Elevations are shown in feet above mean sea level (AMSL) relative to the North Americal Vertical Datum of 1988 (NAVD88).
2. - = not available or does not apply; NAPL = Non-Aqueous Phase Liquid; LNAPL= Light Non-Aqueous Phase Liquid.
3.* MW-25 obstructed. Reported depth measurements and elevations are questionaable and therefore not incorporated in groundwater contour mapping.
4.** The groundwater elevation at MW-11 has been corrected for the presence of LNAPL, using an estimated LNAPL density of 0.9.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6			MW-11	MW-12		
Sample Depth (ft BGS):		15.5 - 20.5	26 - 31			7 - 13	8 - 13		
Date Collected:		11/06/13	06/26/12	11/05/13	09/14/15	09/16/15	06/27/12	11/06/13	09/16/15
Volatile Organics									
1,1,1-Trichloroethane	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
1,1,2,2-Tetrachloroethane	5	<0.500 J	<1.00	<0.500 J	NA	NA	<1.00	<0.500 J	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
1,1,2-Trichloroethane	1	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
1,1-Dichloroethane	5	<1.00 J	<1.00	<1.00 J	NA	NA	<1.00	<1.00 J	NA
1,1-Dichloroethene	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
1,2,3-Trichlorobenzene	- -	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
1,2,4-Trichlorobenzene	5	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
1,2-Dibromo-3-chloropropane	0.04	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
1,2-Dibromoethane	- -	<2.00	NA	<2.00	NA	NA	NA	<2.00	NA
1,2-Dichlorobenzene	3	<1.00	NA	<1.00	NA	NA	NA	<1.00	NA
1,2-Dichloroethane	0.6	<1.00 J	<1.00	<1.00 J	NA	NA	<1.00	<1.00 J	NA
1,2-Dichloropropane	1	<2.00	<2.00	<2.00	NA	NA	<2.00	<2.00	NA
1,3-Dichlorobenzene	3	<1.00	NA	<1.00	NA	NA	NA	<1.00	NA
1,4-Dichlorobenzene	3	<1.00 J	NA	<1.00 J	NA	NA	NA	<1.00 J	NA
1,4-Dioxane	- -	<25.0 J	NA	<25.0 J	NA	NA	NA	<25.0 J	NA
2-Butanone	- -	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
2-Hexanone	50	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
4-Methyl-2-pentanone	- -	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
Acetone	50	<10.0 J	<5.00	<10.0 J	NA	NA	<5.00	<10.0 J	NA
Benzene	1	<0.500	<0.500	<0.500 J	<0.500 J [<0.500 J]	0.820 J	<0.500	<0.500	<0.500 J
Bromochloromethane	- -	<5.00 J	NA	<5.00	NA	NA	NA	<5.00 J	NA
Bromodichloromethane	50	<1.00	<1.00	<1.00 J	NA	NA	<1.00	<1.00	NA
Bromoform	50	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
Bromomethane	5	<2.00	<2.00	<2.00	NA	NA	<2.00 J	<2.00	NA
Carbon Disulfide	- -	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
Carbon Tetrachloride	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
Chlorobenzene	5	<1.00 J	<1.00	<1.00 J	NA	NA	<1.00	<1.00 J	NA
Chloroethane	5	<2.00	<2.00	<2.00	NA	NA	<2.00	<2.00	NA
Chloroform	7	<1.00 J	<1.00	<1.00 J	NA	NA	<1.00	<1.00 J	NA
Chloromethane	- -	1.40 J	<2.00	3.00	NA	NA	<2.00 J	2.90	NA
cis-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	NA	NA	<0.500	<0.500	NA
Cyclohexane	- -	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
Dibromochloromethane	50	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
Dichlorodifluoromethane	5	<2.00	NA	<2.00	NA	NA	NA	<2.00	NA
Ethylbenzene	5	<1.00	<1.00	<1.00	<1.00 J [<1.00 J]	<1.00 J	<1.00	<1.00	<1.00 J

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6			MW-11	MW-12		
Sample Depth (ft BGS):		15.5 - 20.5	26 - 31			7 - 13	8 - 13		
Date Collected:		11/06/13	06/26/12	11/05/13	09/14/15	09/16/15	06/27/12	11/06/13	09/16/15
Volatile Organics (continued)									
Isopropylbenzene	5	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
Methyl acetate	- -	<5.00 J	NA	<5.00 J	NA	NA	NA	<5.00 J	NA
Methyl tert-butyl ether	- -	<1.00	NA	<1.00	NA	NA	NA	<1.00	NA
Methylcyclohexane	- -	<5.00	NA	<5.00	NA	NA	NA	<5.00	NA
Methylene Chloride	5	<2.00	<2.00	<2.00	NA	NA	<2.00	<2.00	NA
Styrene	5	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
Tetrachloroethene	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
Toluene	5	<1.00	<1.00	<1.00	<1.00 J [<1.00 J]	0.290 J	<1.00	<1.00	<1.00 J
trans-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	NA	NA	<0.500	<0.500	NA
Trichloroethene	5	<1.00	<1.00	<1.00	NA	NA	<1.00	<1.00	NA
Trichlorofluoromethane	5	<1.00	NA	<1.00	NA	NA	NA	<1.00	NA
Vinyl Chloride	2	<1.00 J	<1.00	<1.00 J	NA	NA	<1.00	<1.00 J	NA
Xylenes (total)	5	<1.00	<1.00	<1.00	<1.00 J [<1.00 J]	0.330 J	<1.00	<1.00	<1.00 J
Semivolatile Organics									
1,1'-Biphenyl	5	<12.0	NA	<12.0	NA	NA	NA	<13.0	NA
1,2,4,5-Tetrachlorobenzene	- -	<12.0	NA	<12.0	NA	NA	NA	<13.0	NA
1,2,4-Trichlorobenzene	5	NA	<5.40	NA	NA	NA	<5.80	NA	NA
1,2-Dichlorobenzene	3	NA	<5.40	NA	NA	NA	<5.80	NA	NA
1,3-Dichlorobenzene	3	NA	<5.40	NA	NA	NA	<5.80	NA	NA
1,4-Dichlorobenzene	3	NA	<5.40	NA	NA	NA	<5.80	NA	NA
2,4,5-Trichlorophenol	1	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2,4,6-Trichlorophenol	1	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2,4-Dichlorophenol	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2,4-Dimethylphenol	50	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2,4-Dinitrophenol	10	<24.0	<22.0	<25.0	NA	NA	<23.0	<25.0	NA
2,4-Dinitrotoluene	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2,6-Dinitrotoluene	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2-Chloronaphthalene	10	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
2-Chlorophenol	1	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
2-Methylnaphthalene	- -	<2.40	<2.20	<2.50	<2.00 [0.0440 J]	<2.00	<2.30	<2.50	<2.00 B
2-Methylphenol	- -	NA	<11.0	NA	NA	NA	<12.0	NA	NA
2-Nitroaniline	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
2-Nitrophenol	- -	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
3&4-Methylphenol	- -	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
3,3'-Dichlorobenzidine	5	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
3-Nitroaniline	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6			MW-11	MW-12		
Sample Depth (ft BGS):		15.5 - 20.5	26 - 31			7 - 13	8 - 13		
Date Collected:		11/06/13	06/26/12	11/05/13	09/14/15	09/16/15	06/27/12	11/06/13	09/16/15
Semivolatile Organics (continued)									
4,6-Dinitro-2-methylphenol	- -	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
4-Bromophenyl-phenylether	- -	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
4-Chloro-3-Methylphenol	- -	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
4-Chloroaniline	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
4-Chlorophenyl-phenylether	- -	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
4-Nitroaniline	5	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
4-Nitrophenol	- -	<24.0 J	<22.0	<25.0 J	NA	NA	<23.0	<25.0 J	NA
Acenaphthene	20	<2.40	<2.20	<2.50	0.0370 J [0.0380 J]	4.60	<2.30	<2.50	<0.100
Acenaphthylene	- -	<2.40	<2.20	<2.50	0.130 [0.120]	0.260	<2.30	<2.50	<0.100
Acetophenone	- -	<12.0	NA	<12.0	NA	NA	NA	<13.0	NA
Anthracene	50	<2.40	<2.20	<2.50	<0.100 [<0.100]	0.110	<2.30	<2.50	<0.100
Atrazine	7.5	<12.0	NA	<12.0	NA	NA	NA	<13.0	NA
Benzaldehyde	- -	<12.0	NA	<12.0	NA	NA	NA	<13.0	NA
Benzo(a)anthracene	0.002	<2.40	<2.20	<2.50	<0.0510 [<0.0500]	<0.0510	<2.30	<2.50	<0.0510
Benzo(a)pyrene	- -	<2.40	<2.20	<2.50	<0.100 [<0.100]	<0.100	<2.30	<2.50	<0.100
Benzo(b)fluoranthene	0.002	<2.40	<2.20	<2.50	<0.0510 J [<0.0500 J]	<0.0510 J	<2.30	<2.50	<0.0510 J
Benzo(g,h,i)perylene	- -	<2.40	<2.20	<2.50	<0.100 [<0.100]	<0.100	<2.30	<2.50	<0.100
Benzo(k)fluoranthene	0.002	<2.40	<2.20	<2.50	<0.100 [<0.100]	<0.100	<2.30	<2.50	<0.100
bis(2-Chloroethoxy)methane	5	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
bis(2-Chloroethyl)ether	1	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
bis(2-Chloroisopropyl)ether	- -	NA	<5.40	NA	NA	NA	<5.80	NA	NA
bis(2-Ethylhexyl)phthalate	5	<2.40	<2.20	<2.50	NA	NA	<2.30	<2.50	NA
Butylbenzylphthalate	50	<6.00	<5.40	<6.20	NA	NA	0.550 J	<6.30	NA
Caprolactam	- -	<12.0 J	NA	<12.0 J	NA	NA	NA	<13.0 J	NA
Carbazole	- -	<2.40	<2.20	<2.50	NA	NA	<2.30	<2.50	NA
Chrysene	0.002	<2.40	<2.20	<2.50	<0.100 [<0.100]	**0.0160 J**	<2.30	<2.50	<0.100
Dibenzo(a,h)anthracene	- -	<2.40	<2.20	<2.50	<0.100 [<0.100]	<0.100	<2.30	<2.50	<0.100
Dibenzofuran	- -	<2.40	<2.20	<2.50	NA	NA	<2.30	<2.50	NA
Diethylphthalate	50	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Dimethylphthalate	50	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Di-n-Butylphthalate	50	<6.00	<5.40 B	<6.20	NA	NA	<5.80 B	<6.30	NA
Di-n-Octylphthalate	50	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Fluoranthene	50	<2.40	<2.20	<2.50	0.0450 J [0.0510 J]	0.0460 J	<2.30	<2.50	<0.100
Fluorene	50	<2.40	<2.20	<2.50	<0.100 [0.0200 J]	1.10	<2.30	<2.50	<0.100
Hexachlorobenzene	0.04	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Hexachlorobutadiene	0.5	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Hexachlorocyclopentadiene	5	<12.0 J	<11.0	<12.0 J	NA	NA	<12.0	<13.0 J	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6			MW-11	MW-12		
Sample Depth (ft BGS):		15.5 - 20.5	26 - 31			7 - 13	8 - 13		
Date Collected:		11/06/13	06/26/12	11/05/13	09/14/15	09/16/15	06/27/12	11/06/13	09/16/15
Semivolatile Organics (continued)									
Hexachloroethane	5	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Indeno(1,2,3-cd)pyrene	0.002	<2.40	<2.20	<2.50	<0.100 [<0.100]	<0.100	<2.30	<2.50	<0.100
Isophorone	50	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Naphthalene	10	<2.40	<2.20 B	<2.50	0.0230 J [0.0270 J]	0.250 J	<2.30	<2.50	<2.00 B
Nitrobenzene	0.4	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
N-Nitroso-di-n-propylamine	- -	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
N-Nitrosodiphenylamine	50	<6.00	<5.40	<6.20	NA	NA	<5.80	<6.30	NA
Pentachlorophenol	- -	<12.0	<11.0	<12.0	NA	NA	<12.0	<13.0	NA
Phenanthrene	50	<2.40	<2.20	<2.50	<0.0510 [0.0300 J]	0.0380 J	<2.30	<2.50	<0.0510
Phenol	1	<6.00 J	<5.40	<6.20 J	NA	NA	<5.80	<6.30 J	NA
Pyrene	50	<2.40	<2.20	<2.50	0.0580 J [0.0650 J]	0.150	<2.30	<2.50	<0.100
Total PAHs	- -	<20.4	<18.7	<21.3	1.77 J [0.795 J]	7.87 J	<19.6	<21.3	<2.68
Inorganics									
Aluminum	- -	153 B	<200 B	709	NA	NA	673	406	NA
Antimony	3	<6.00	<6.00	<6.00	NA	NA	<6.00	<6.00	NA
Arsenic	25	<4.00	<4.00	<4.00	NA	NA	<4.00	<4.00	NA
Barium	1,000	247	162	185	NA	NA	108	80.8	NA
Beryllium	- -	<4.00	<4.00	<4.00	NA	NA	<4.00	<4.00	NA
Cadmium	5	0.700 B	<4.00	<4.00	NA	NA	<4.00	<4.00	NA
Calcium	- -	91,100	80,300	80,500	NA	NA	200,000	144,000	NA
Chromium	50	**194**	4.00 B	3.40 B	NA	NA	**701**	**56.3**	NA
Cobalt	- -	3.40 B	<50.0	0.900 B	NA	NA	9.70 B	4.40 B	NA
Copper	200	<25.0	<25.0	<25.0	NA	NA	12.4 B	<25.0	NA
Cyanide	200	<10.0	<10.0	<10.0	<10.0 J [<10.0 J]	**370**	**2,600**	**3,000**	**6,500**
Iron	300	**1,830**	<100 B	**685**	NA	NA	**6,210**	**2,440**	NA
Lead	25	<5.00	<5.00	2.10 B	NA	NA	<5.00	<5.00	NA
Magnesium	- -	19,000	15,400	17,500	NA	NA	21,600	14,300	NA
Manganese	300	49.1	158	**309**	NA	NA	**1,230**	**652**	NA
Mercury	0.7	<0.200	<0.200	<0.200	NA	NA	<0.200	<0.200	NA
Nickel	100	44.9	<40.0	2.50 B	NA	NA	**299**	51.9	NA
Potassium	- -	1,850 B	1,060 B	1,400 B	NA	NA	2,920 B	2,580 B	NA
Selenium	10	<10.0	<10.0	<10.0	NA	NA	<10.0	<10.0	NA
Silver	50	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
Sodium	- -	49,000	51,500	50,300	NA	NA	105,000	62,200	NA
Thallium	- -	<5.00	<5.00	<5.00	NA	NA	<5.00	<5.00	NA
Vanadium	- -	<10.0	<10.0	<10.0	NA	NA	<10.0 B	<10.0	NA
Zinc	2,000	4.90 B	4.90 B	14.1 B	NA	NA	5.90 B	78.6	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-13			MW-14	MW-14R		MW-17		
Sample Depth (ft BGS):		35.5 - 40.5			6.5 - 11.5	2.8 - 12.8		6 - 11		
Date Collected:		06/27/12	11/06/13	09/16/15	06/26/12	11/05/13	09/14/15	06/25/12	11/05/13	09/14/15
Volatile Organics										
1,1,1-Trichloroethane	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J	NA	<1.00	<0.500 J	NA	<1.00 [<1.00]	<0.500 J	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
1,1,2-Trichloroethane	1	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
1,1-Dichloroethane	5	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA	<1.00 [<1.00]	<1.00 J	NA
1,1-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
1,2,3-Trichlorobenzene	- -	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
1,2,4-Trichlorobenzene	5	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
1,2-Dibromoethane	- -	NA	<2.00	NA	NA	<2.00	NA	NA	<2.00	NA
1,2-Dichlorobenzene	3	NA	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA
1,2-Dichloroethane	0.6	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA	<1.00 J [<1.00]	<1.00 J	NA
1,2-Dichloropropane	1	<2.00	<2.00	NA	<2.00	<2.00	NA	<2.00 [<2.00]	<2.00	NA
1,3-Dichlorobenzene	3	NA	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA
1,4-Dichlorobenzene	3	NA	<1.00 J	NA	NA	<1.00 J	NA	NA	<1.00 J	NA
1,4-Dioxane	- -	NA	<25.0 J	NA	NA	<25.0 J	NA	NA	<25.0 J	NA
2-Butanone	- -	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
2-Hexanone	50	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
4-Methyl-2-pentanone	- -	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
Acetone	50	<5.00	<10.0 J	NA	<5.00	<10.0 J	NA	<5.00 [<5.00]	<10.0 J	NA
Benzene	1	<0.500	<0.500	<0.500 J	**14.5**	**17.0 J**	<0.500 J	**291 [304]**	**14.1 J**	**5.30 J**
Bromochloromethane	- -	NA	<5.00 J	NA	NA	<5.00	NA	NA	<5.00	NA
Bromodichloromethane	50	<1.00	<1.00	NA	<1.00	<1.00 J	NA	<1.00 [<1.00]	<1.00 J	NA
Bromoform	50	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
Bromomethane	5	<2.00 J	<2.00	NA	<2.00	<2.00	NA	<2.00 J [<2.00]	<2.00	NA
Carbon Disulfide	- -	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
Carbon Tetrachloride	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
Chlorobenzene	5	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA	<1.00 [<1.00]	<1.00 J	NA
Chloroethane	5	<2.00	<2.00	NA	<2.00	<2.00	NA	<2.00 [<2.00]	<2.00	NA
Chloroform	7	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA	<1.00 [<1.00]	<1.00 J	NA
Chloromethane	- -	<2.00 J	2.00	NA	<2.00	<2.00	NA	<2.00 [<2.00]	1.60 J	NA
cis-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	NA	<0.500	<0.500	NA	<0.500 [<0.500]	<0.500	NA
Cyclohexane	- -	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
Dibromochloromethane	50	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
Dichlorodifluoromethane	5	NA	<2.00	NA	NA	<2.00	NA	NA	<2.00	NA
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00 J	**258 [257]**	**17.5**	0.790 J

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-13			MW-14	MW-14R		MW-17		
Sample Depth (ft BGS):		35.5 - 40.5			6.5 - 11.5	2.8 - 12.8		6 - 11		
Date Collected:		06/27/12	11/06/13	09/16/15	06/26/12	11/05/13	09/14/15	06/25/12	11/05/13	09/14/15
Volatile Organics (continued)										
Isopropylbenzene	5	NA	<5.00	NA	NA	0.780 J	NA	NA	2.80 J	NA
Methyl acetate	- -	NA	<5.00 J	NA	NA	<5.00 J	NA	NA	<5.00 J	NA
Methyl tert-butyl ether	- -	NA	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA
Methylcyclohexane	- -	NA	<5.00	NA	NA	<5.00	NA	NA	<5.00	NA
Methylene Chloride	5	<2.00	<2.00	NA	<2.00	<2.00	NA	<2.00 [<2.00]	<2.00	NA
Styrene	5	<5.00	<5.00	NA	<5.00	<5.00	NA	0.840 J [1.10 J]	<5.00	NA
Tetrachloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
Toluene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00 J	**16.0 [17.1]**	1.10	<1.00 J
trans-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	NA	<0.500	<0.500	NA	<0.500 [<0.500]	<0.500	NA
Trichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	NA	<1.00 [<1.00]	<1.00	NA
Trichlorofluoromethane	5	NA	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA
Vinyl Chloride	2	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA	<1.00 [<1.00]	<1.00 J	NA
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00 J	**157 J [144]**	1.70	0.240 J
Semivolatile Organics										
1,1'-Biphenyl	5	NA	<12.0	NA	NA	<12.0	NA	NA	<13.0	NA
1,2,4,5-Tetrachlorobenzene	- -	NA	<12.0	NA	NA	<12.0	NA	NA	<13.0	NA
1,2,4-Trichlorobenzene	5	<5.50	NA	NA	<5.30	NA	NA	<5.40 [<5.50]	NA	NA
1,2-Dichlorobenzene	3	<5.50	NA	NA	<5.30	NA	NA	<5.40 [<5.50]	NA	NA
1,3-Dichlorobenzene	3	<5.50	NA	NA	<5.30	NA	NA	<5.40 [<5.50]	NA	NA
1,4-Dichlorobenzene	3	<5.50	NA	NA	<5.30	NA	NA	<5.40 [<5.50]	NA	NA
2,4,5-Trichlorophenol	1	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2,4,6-Trichlorophenol	1	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2,4-Dichlorophenol	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2,4-Dimethylphenol	50	<11.0	<12.0	NA	<11.0	<12.0	NA	11.8 [<11.0]	<13.0	NA
2,4-Dinitrophenol	10	<22.0	<24.0	NA	<21.0	<24.0	NA	<22.0 [<22.0]	<26.0	NA
2,4-Dinitrotoluene	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2,6-Dinitrotoluene	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2-Chloronaphthalene	10	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
2-Chlorophenol	1	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
2-Methylnaphthalene	- -	<2.20	<2.40	<2.00	<2.10	<2.40	<2.00	<2.20 [<2.20]	26.8	<2.10
2-Methylphenol	- -	<11.0	NA	NA	<11.0	NA	NA	<11.0 [<11.0]	NA	NA
2-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
2-Nitrophenol	- -	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
3&4-Methylphenol	- -	<11.0	<12.0	NA	1.80 J	<12.0	NA	<11.0 [<11.0]	<13.0	NA
3,3'-Dichlorobenzidine	5	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
3-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-13			MW-14	MW-14R		MW-17		
Sample Depth (ft BGS):		35.5 - 40.5			6.5 - 11.5	2.8 - 12.8		6 - 11		
Date Collected:		06/27/12	11/06/13	09/16/15	06/26/12	11/05/13	09/14/15	06/25/12	11/05/13	09/14/15
Semivolatile Organics (continued)										
4,6-Dinitro-2-methylphenol	- -	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
4-Bromophenyl-phenylether	- -	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
4-Chloro-3-Methylphenol	- -	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
4-Chloroaniline	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
4-Chlorophenyl-phenylether	- -	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
4-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
4-Nitrophenol	- -	<22.0	<24.0 J	NA	<21.0	<24.0 J	NA	<22.0 [<22.0]	<26.0 J	NA
Acenaphthene	20	<2.20	<2.40	<0.100	3.00	13.6	<0.100	**168 [146]**	**22.5**	**22.1**
Acenaphthylene	- -	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	1.50
Acetophenone	- -	NA	<12.0	NA	NA	<12.0	NA	NA	<13.0	NA
Anthracene	50	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	2.90 [2.80]	0.730 J	1.10
Atrazine	7.5	NA	<12.0	NA	NA	<12.0	NA	NA	<13.0	NA
Benzaldehyde	- -	NA	<12.0	NA	NA	<12.0	NA	NA	<13.0	NA
Benzo(a)anthracene	0.002	<2.20	<2.40	<0.0510	<2.10	<2.40	<0.0510	<2.20 [<2.20]	<2.60	<0.0520
Benzo(a)pyrene	- -	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
Benzo(b)fluoranthene	0.002	<2.20	<2.40	<0.0510 J	<2.10	<2.40	<0.0510 J	<2.20 [<2.20]	<2.60	<0.0520 J
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
Benzo(k)fluoranthene	0.002	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
bis(2-Chloroethoxy)methane	5	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
bis(2-Chloroethyl)ether	1	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
bis(2-Chloroisopropyl)ether	- -	<5.50	NA	NA	<5.30	NA	NA	<5.40 [<5.50]	NA	NA
bis(2-Ethylhexyl)phthalate	5	0.810 J	<2.40	NA	<2.10	<2.40	NA	<2.20 [<2.20]	<2.60	NA
Butylbenzylphthalate	50	0.700 J	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Caprolactam	- -	NA	<12.0 J	NA	NA	<12.0 J	NA	NA	<13.0	NA
Carbazole	- -	<2.20	<2.40	NA	<2.10	1.60 J	NA	51.9 [50.7]	12.6	NA
Chrysene	0.002	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
Dibenzofuran	- -	<2.20	<2.40	NA	<2.10	<2.40	NA	28.7 [25.3]	5.20	NA
Diethylphthalate	50	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Dimethylphthalate	50	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Di-n-Butylphthalate	50	<5.50 B	<6.10	NA	<5.30	<6.00	NA	2.20 J [<5.50]	<6.40	NA
Di-n-Octylphthalate	50	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Fluoranthene	50	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	1.50 J [1.50 J]	<2.60	0.520
Fluorene	50	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	39.0 [35.2]	6.70	9.10
Hexachlorobenzene	0.04	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Hexachlorobutadiene	0.5	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Hexachlorocyclopentadiene	5	<11.0	<12.0 J	NA	<11.0	<12.0 J	NA	<11.0 [<11.0]	<13.0 J	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-13			MW-14	MW-14R		MW-17		
Sample Depth (ft BGS):		35.5 - 40.5			6.5 - 11.5	2.8 - 12.8		6 - 11		
Date Collected:		06/27/12	11/06/13	09/16/15	06/26/12	11/05/13	09/14/15	06/25/12	11/05/13	09/14/15
Semivolatile Organics (continued)										
Hexachloroethane	5	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Indeno(1,2,3-cd)pyrene	0.002	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	<2.20 [<2.20]	<2.60	<0.100
Isophorone	50	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Naphthalene	10	<2.20	<2.40	<2.00	<2.10 B	<2.40	0.0160 J	**1,870 D [<1,740 BD]**	0.730 J	0.340 J
Nitrobenzene	0.4	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
N-Nitroso-di-n-propylamine	- -	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
N-Nitrosodiphenylamine	50	<5.50	<6.10	NA	<5.30	<6.00	NA	<5.40 [<5.50]	<6.40	NA
Pentachlorophenol	- -	<11.0	<12.0	NA	<11.0	<12.0	NA	<11.0 [<11.0]	<13.0	NA
Phenanthrene	50	<2.20	<2.40	<0.0510	<2.10	<2.40	<0.0510	33.9 [32.5]	7.40	0.770
Phenol	1	<5.50	<6.10 J	NA	<5.30	<6.00 J	NA	<5.40 [<5.50]	<6.40 J	NA
Pyrene	50	<2.20	<2.40	<0.100	<2.10	<2.40	<0.100	1.10 J [1.10 J]	<2.60	0.460
Total PAHs	- -	<18.7	<20.4	<2.68	19.8	32.8	1.69 J	2,130 J [1,100 J]	79.2 J	37.3 J
Inorganics										
Aluminum	- -	122 B	89.3 B	NA	<200 B	84.3 B	NA	<200 B [<200 B]	58.0 B	NA
Antimony	3	<6.00	<6.00	NA	<6.00	<6.00	NA	<6.00 [<6.00]	<6.00	NA
Arsenic	25	<4.00	<4.00	NA	<4.00	<4.00	NA	<4.00 B [<4.00]	3.40 B	NA
Barium	1,000	198	191	NA	363	362	NA	565 [557]	385	NA
Beryllium	- -	<4.00	<4.00	NA	<4.00	<4.00	NA	<4.00 [<4.00]	<4.00	NA
Cadmium	5	<4.00	<4.00	NA	<4.00	<4.00	NA	<4.00 [<4.00]	<4.00	NA
Calcium	- -	87,900	88,800	NA	81,500	70,200	NA	126,000 [124,000]	88,200	NA
Chromium	50	**147**	30.3	NA	<10.0	12.4	NA	<10.0 [<10.0]	<10.0	NA
Cobalt	- -	12.6 B	3.10 B	NA	<50.0 B	0.600 B	NA	<50.0 B [<50.0]	<50.0	NA
Copper	200	4.80 B	<25.0	NA	<25.0	<25.0	NA	<25.0 [<25.0]	<25.0	NA
Cyanide	200	<10.0	<10.0	<10.0	100	130	81.0 J	**310 [330]**	30.0	<10.0 J
Iron	300	**3,820**	**375**	NA	**6,300**	**928**	NA	**3,070 [3,020]**	**1,690**	NA
Lead	25	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
Magnesium	- -	17,700	19,300	NA	7,590	7,570	NA	22,800 [22,300]	18,100	NA
Manganese	300	158	52.5	NA	**1,780**	**1,510**	NA	**923 [907]**	**523**	NA
Mercury	0.7	<0.200	<0.200	NA	<0.200 B	<0.200	NA	<0.200 [<0.200]	<0.200	NA
Nickel	100	**103**	20.2 B	NA	<40.0 B	54.4	NA	<40.0 [<40.0]	**3.30 B**	NA
Potassium	- -	1,180 B	1,240 B	NA	2,450 B	3,470 B	NA	1,370 B [1,310 B]	1,110 B	NA
Selenium	10	<10.0	<10.0	NA	<10.0	<10.0	NA	<10.0 [<10.0]	<10.0	NA
Silver	50	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
Sodium	- -	61,500	58,000	NA	242,000	447,000	NA	89,500 [86,900]	64,100	NA
Thallium	- -	<5.00	<5.00	NA	<5.00	<5.00	NA	<5.00 [<5.00]	<5.00	NA
Vanadium	- -	<10.0 B	<10.0	NA	<10.0	<10.0	NA	<10.0 [<10.0]	<10.0	NA
Zinc	2,000	<20.0	4.20 B	NA	5.70 B	1.00 B	NA	<20.0 [<20.0]	1.40 B	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18			MW-21		MW-25		MW-26	MW-27D	
Sample Depth (ft BGS):		24.6 - 29.6			32 - 37		4 - 14		50 - 60	24 - 34	
Date Collected:		06/25/12	11/05/13	09/14/15	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13
Volatile Organics											
1,1,1-Trichloroethane	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J	NA	<1.00	<0.500 J	<1.00	<0.500 J	<0.500 J	<1.00	<0.500 J
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
1,1,2-Trichloroethane	1	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	5	<1.00	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J
1,1-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	- -	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
1,2,4-Trichlorobenzene	5	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
1,2-Dibromoethane	- -	NA	<2.00	NA	NA	<2.00	NA	<2.00	<2.00	NA	<2.00
1,2-Dichlorobenzene	3	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00
1,2-Dichloroethane	0.6	<1.00	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J
1,2-Dichloropropane	1	<2.00	<2.00	NA	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,3-Dichlorobenzene	3	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00
1,4-Dichlorobenzene	3	NA	<1.00 J	NA	NA	<1.00 J	NA	<1.00 J	<1.00	NA	<1.00 J
1,4-Dioxane	- -	NA	<25.0 J	NA	NA	<25.0 J	NA	<25.0 J	<25.0 J	NA	<25.0 J
2-Butanone	- -	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J
2-Hexanone	50	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J
4-Methyl-2-pentanone	- -	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	50	<5.00	<10.0 J	NA	<5.00	<10.0 J	<5.00	<10.0 J	<10.0 J	<5.00	<10.0 J
Benzene	1	0.650	<0.500 J	<0.500 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 J
Bromochloromethane	- -	NA	<5.00	NA	NA	<5.00 J	NA	<5.00 J	<5.00 J	NA	<5.00
Bromodichloromethane	50	<1.00	<1.00 J	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J
Bromoform	50	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	5	<2.00	<2.00	NA	<2.00 J	<2.00	<2.00 J	<2.00	<2.00	<2.00	<2.00
Carbon Disulfide	- -	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Carbon Tetrachloride	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	5	<1.00	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J
Chloroethane	5	<2.00	<2.00	NA	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chloroform	7	<1.00	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J
Chloromethane	- -	<2.00	<2.00	NA	<2.00 J	<2.00	<2.00 J	2.10	1.80 J	<2.00	5.10
cis-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Cyclohexane	- -	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
Dibromochloromethane	50	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	5	NA	<2.00	NA	NA	<2.00	NA	<2.00	<2.00	NA	<2.00
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18			MW-21		MW-25		MW-26	MW-27D	
Sample Depth (ft BGS):		24.6 - 29.6			32 - 37		4 - 14		50 - 60	24 - 34	
Date Collected:		06/25/12	11/05/13	09/14/15	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13
Volatile Organics (continued)											
Isopropylbenzene	5	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
Methyl acetate	- -	NA	<5.00 J	NA	NA	<5.00 J	NA	<5.00 J	<5.00 J	NA	<5.00 J
Methyl tert-butyl ether	- -	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00
Methylcyclohexane	- -	NA	<5.00	NA	NA	<5.00	NA	<5.00	<5.00	NA	<5.00
Methylene Chloride	5	<2.00	<2.00	NA	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Styrene	5	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Tetrachloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichloroethene	5	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	5	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00
Vinyl Chloride	2	<1.00	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Semivolatile Organics											
1,1'-Biphenyl	5	NA	<12.0	NA	NA	<11.0	NA	<13.0	<12.0	NA	<12.0
1,2,4,5-Tetrachlorobenzene	- -	NA	<12.0	NA	NA	<11.0	NA	<13.0	<12.0	NA	<12.0
1,2,4-Trichlorobenzene	5	<5.40	NA	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA
1,2-Dichlorobenzene	3	<5.40	NA	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA
1,3-Dichlorobenzene	3	<5.40	NA	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA
1,4-Dichlorobenzene	3	<5.40	NA	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA
2,4,5-Trichlorophenol	1	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2,4,6-Trichlorophenol	1	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2,4-Dichlorophenol	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2,4-Dimethylphenol	50	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2,4-Dinitrophenol	10	<22.0	<24.0	NA	<22.0	<23.0	<22.0	<26.0	<24.0	<22.0	<25.0
2,4-Dinitrotoluene	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2,6-Dinitrotoluene	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2-Chloronaphthalene	10	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
2-Chlorophenol	1	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
2-Methylnaphthalene	- -	<2.20	<2.40	0.0170 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
2-Methylphenol	- -	<11.0	NA	NA	<11.0	NA	<11.0	NA	NA	<11.0	NA
2-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
2-Nitrophenol	- -	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
3&4-Methylphenol	- -	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
3,3'-Dichlorobenzidine	5	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
3-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18			MW-21		MW-25		MW-26	MW-27D	
Sample Depth (ft BGS):		24.6 - 29.6			32 - 37		4 - 14		50 - 60	24 - 34	
Date Collected:		06/25/12	11/05/13	09/14/15	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13
Semivolatile Organics (continued)											
4,6-Dinitro-2-methylphenol	- -	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
4-Bromophenyl-phenylether	- -	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
4-Chloro-3-Methylphenol	- -	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
4-Chloroaniline	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
4-Chlorophenyl-phenylether	- -	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
4-Nitroaniline	5	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
4-Nitrophenol	- -	<22.0	<24.0 J	NA	<22.0	<23.0 J	<22.0	<26.0 J	<24.0 J	<22.0	<25.0 J
Acenaphthene	20	<2.20	0.580 J	4.10	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Acenaphthylene	- -	<2.20	<2.40	1.20	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Acetophenone	- -	NA	<12.0	NA	NA	<11.0	NA	<13.0	<12.0	NA	<12.0
Anthracene	50	<2.20	<2.40	0.0440 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Atrazine	7.5	NA	<12.0	NA	NA	<11.0	NA	<13.0	<12.0	NA	<12.0
Benzaldehyde	- -	NA	<12.0	NA	NA	<11.0	NA	<13.0	<12.0	NA	<12.0
Benzo(a)anthracene	0.002	<2.20	<2.40	<0.0520	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(a)pyrene	- -	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(b)fluoranthene	0.002	<2.20	<2.40	<0.0520 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(k)fluoranthene	0.002	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
bis(2-Chloroethoxy)methane	5	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
bis(2-Chloroethyl)ether	1	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
bis(2-Chloroisopropyl)ether	- -	<5.40	NA	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA
bis(2-Ethylhexyl)phthalate	5	<2.20	<2.40	NA	<2.20	<2.30	<2.20	<2.60	1.80 J	<2.20	<2.50
Butylbenzylphthalate	50	<5.40	<5.90	NA	0.880 J	<5.70	0.310 J	<6.50	<6.00	<5.40	<6.20
Caprolactam	- -	NA	<12.0 J	NA	NA	<11.0 J	NA	<13.0 J	<12.0 J	NA	<12.0 J
Carbazole	- -	<2.20	<2.40	NA	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Chrysene	0.002	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Dibenzofuran	- -	<2.20	<2.40	NA	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Diethylphthalate	50	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Dimethylphthalate	50	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Di-n-Butylphthalate	50	<5.40	<5.90	NA	<5.60 B	<5.70	<5.60 B	<6.50	<6.00	<5.40 B	<6.20
Di-n-Octylphthalate	50	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Fluoranthene	50	<2.20	<2.40	0.170	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Fluorene	50	<2.20	<2.40	0.270	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Hexachlorobenzene	0.04	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Hexachlorobutadiene	0.5	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Hexachlorocyclopentadiene	5	<11.0	<12.0 J	NA	<11.0	<11.0 J	<11.0	<13.0 J	<12.0 J	<11.0	<12.0 J

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18			MW-21		MW-25		MW-26	MW-27D	
Sample Depth (ft BGS):		24.6 - 29.6			32 - 37		4 - 14		50 - 60	24 - 34	
Date Collected:		06/25/12	11/05/13	09/14/15	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13
Semivolatile Organics (continued)											
Hexachloroethane	5	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20 J
Indeno(1,2,3-cd)pyrene	0.002	<2.20	<2.40	<0.100	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Isophorone	50	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Naphthalene	10	<2.20 B	<2.40	0.0320 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50 J
Nitrobenzene	0.4	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
N-Nitroso-di-n-propylamine	- -	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
N-Nitrosodiphenylamine	50	<5.40	<5.90	NA	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20
Pentachlorophenol	- -	<11.0	<12.0	NA	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0
Phenanthrene	50	<2.20	<2.40	0.0510 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Phenol	1	<5.40	<5.90 J	NA	<5.60	<5.70 J	<5.60	<6.50 J	<6.00 J	<5.40	<6.20 J
Pyrene	50	<2.20	<2.40	0.170	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Total PAHs	- -	<18.7	19.8 J	6.41 J	<18.7	<19.6	<18.7	<22.1	<20.4	<18.7	<21.3
Inorganics											
Aluminum	- -	<200	53.2 B	NA	<200 B	40.7 B	129 B	111 B	699	486	45.5 B
Antimony	3	<6.00	<6.00	NA	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	25	<4.10 B	3.70 B	NA	<4.00	<4.00	<4.00	9.50	<4.00	<4.00	<4.00
Barium	1,000	135	168	NA	145	138	153	182	158	180	163
Beryllium	- -	<4.00	<4.00	NA	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cadmium	5	<4.00 B	<4.00	NA	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Calcium	- -	19,200	34,700	NA	89,200	80,100	112,000	112,000	47,200	93,300	82,500
Chromium	50	<10.0	1.60 B	NA	26.8	21.6	<10.0	5.80 B	9.60 B	<10.0	<10.0
Cobalt	- -	<50.0	<50.0	NA	35.3 B	1.10 B	<50.0	4.10 B	0.400 B	<50.0 B	<50.0
Copper	200	1.80 B	<25.0	NA	2.90 B	<25.0	<25.0	<25.0	<25.0	1.80 B	<25.0
Cyanide	200	<10.0	<10.0	<10.0 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Iron	300	<105 B	199	NA	**758**	**561**	150	**13,300**	**675**	**764**	<100
Lead	25	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Magnesium	- -	18,100	18,000	NA	18,300	18,100	19,300	21,300	18,200	18,800	17,400
Manganese	300	278	242	NA	300	6.40 B	142	**989**	26.6	87.2	17.5
Mercury	0.7	<0.200	<0.200	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Nickel	100	<40.0 B	1.60 B	NA	**1,150**	**737**	<40.0 B	19.7 B	35.3 B	<40.0 B	<40.0
Potassium	- -	1,470 B	1,240 B	NA	1,010 B	966 B	953 B	767 B	1,430 B	1,360 B	1,200 B
Selenium	10	<10.0	<10.0	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Silver	50	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Sodium	- -	41,100	42,900	NA	61,600	56,700	44,500	37,700	61,400	61,400	56,300
Thallium	- -	<5.00	<5.00	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vanadium	- -	<10.0	<10.0	NA	<10.0	<10.0	<10.0	3.00 B	<10.0	<10.0	<10.0
Zinc	2,000	<20.0	3.40 B	NA	10.7 B	6.20 B	<20.0	2.30 B	15.6 B	7.30 B	1.70 B

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-27S			MW-28D			MW-28S		
Sample Depth (ft BGS):		5 - 15			18 - 28			4 - 14		
Date Collected:		06/26/12	11/05/13	09/16/15	06/25/12	11/05/13	09/15/15	06/25/12	11/05/13	09/15/15
Volatile Organics										
1,1,1-Trichloroethane	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J [<0.500 J]	NA	<1.00	<0.500 J	NA	<1.00	<0.500 J	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
1,1,2-Trichloroethane	1	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
1,1-Dichloroethane	5	<1.00	<1.00 J [<1.00 J]	NA	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA
1,1-Dichloroethene	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
1,2,3-Trichlorobenzene	- -	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
1,2,4-Trichlorobenzene	5	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
1,2-Dibromoethane	- -	NA	<2.00 [<2.00]	NA	NA	<2.00	NA	NA	<2.00	NA
1,2-Dichlorobenzene	3	NA	<1.00 [<1.00]	NA	NA	<1.00	NA	NA	<1.00	NA
1,2-Dichloroethane	0.6	<1.00	<1.00 J [<1.00 J]	NA	<1.00 J	<1.00 J	NA	<1.00 J	<1.00 J	NA
1,2-Dichloropropane	1	<2.00	<2.00 [<2.00]	NA	<2.00	<2.00	NA	<2.00	<2.00	NA
1,3-Dichlorobenzene	3	NA	<1.00 [<1.00]	NA	NA	<1.00	NA	NA	<1.00	NA
1,4-Dichlorobenzene	3	NA	<1.00 J [<1.00 J]	NA	NA	<1.00 J	NA	NA	<1.00 J	NA
1,4-Dioxane	- -	NA	<25.0 J [<25.0 J]	NA	NA	<25.0 J	NA	NA	<25.0 J	NA
2-Butanone	- -	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
2-Hexanone	50	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
4-Methyl-2-pentanone	- -	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Acetone	50	<5.00	<10.0 J [<10.0 J]	NA	<5.00	<10.0 J	NA	<5.00	<10.0 J	NA
Benzene	1	<0.500	<0.500 J [<0.500 J]	<0.500 J	<0.500	<0.500 J	<0.500 J	<0.500	<0.500 J	<0.500 J
Bromochloromethane	- -	NA	<5.00 J [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
Bromodichloromethane	50	<1.00	<1.00 [<1.00 J]	NA	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA
Bromoform	50	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
Bromomethane	5	<2.00	<2.00 [<2.00]	NA	<2.00 J	<2.00	NA	<2.00 J	<2.00	NA
Carbon Disulfide	- -	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Carbon Tetrachloride	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
Chlorobenzene	5	<1.00	<1.00 J [<1.00 J]	NA	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA
Chloroethane	5	<2.00	<2.00 [<2.00]	NA	<2.00	<2.00	NA	<2.00	<2.00	NA
Chloroform	7	1.10	<1.00 J [<1.00 J]	NA	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA
Chloromethane	- -	<2.00	<2.00 [1.60 J]	NA	<2.00	2.20	NA	<2.00	<2.00	NA
cis-1,2-Dichloroethene	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
cis-1,3-Dichloropropene	0.4	<0.500	<0.500 [<0.500]	NA	<0.500	<0.500	NA	<0.500	<0.500	NA
Cyclohexane	- -	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
Dibromochloromethane	50	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
Dichlorodifluoromethane	5	NA	<2.00 [<2.00]	NA	NA	<2.00	NA	NA	<2.00	NA
Ethylbenzene	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00 J

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-27S			MW-28D			MW-28S		
Sample Depth (ft BGS):		5 - 15			18 - 28			4 - 14		
Date Collected:		06/26/12	11/05/13	09/16/15	06/25/12	11/05/13	09/15/15	06/25/12	11/05/13	09/15/15
Volatile Organics (continued)										
Isopropylbenzene	5	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
Methyl acetate	- -	NA	<5.00 J [<5.00 J]	NA	NA	<5.00 J	NA	NA	<5.00 J	NA
Methyl tert-butyl ether	- -	NA	<1.00 [<1.00]	NA	NA	<1.00	NA	NA	<1.00	NA
Methylcyclohexane	- -	NA	<5.00 [<5.00]	NA	NA	<5.00	NA	NA	<5.00	NA
Methylene Chloride	5	<2.00	<2.00 [<2.00]	NA	<2.00	<2.00	NA	<2.00	<2.00	NA
Styrene	5	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Tetrachloroethene	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
Toluene	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
trans-1,3-Dichloropropene	0.4	<0.500	<0.500 [<0.500]	NA	<0.500	<0.500	NA	<0.500	<0.500	NA
Trichloroethene	5	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	NA	<1.00	<1.00	NA
Trichlorofluoromethane	5	NA	<1.00 [<1.00]	NA	NA	<1.00	NA	NA	<1.00	NA
Vinyl Chloride	2	<1.00	<1.00 J [<1.00 J]	NA	<1.00	<1.00 J	NA	<1.00	<1.00 J	NA
Xylenes (total)	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00 J
Semivolatile Organics										
1,1'-Biphenyl	5	NA	<13.0 [2.70 J]	NA	NA	<11.0	NA	NA	<13.0	NA
1,2,4,5-Tetrachlorobenzene	- -	NA	<13.0 [<12.0]	NA	NA	<11.0	NA	NA	<13.0	NA
1,2,4-Trichlorobenzene	5	<5.90	NA	NA	<5.10	NA	NA	<5.90	NA	NA
1,2-Dichlorobenzene	3	<5.90	NA	NA	<5.10	NA	NA	<5.90	NA	NA
1,3-Dichlorobenzene	3	<5.90	NA	NA	<5.10	NA	NA	<5.90	NA	NA
1,4-Dichlorobenzene	3	<5.90	NA	NA	<5.10	NA	NA	<5.90	NA	NA
2,4,5-Trichlorophenol	1	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2,4,6-Trichlorophenol	1	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2,4-Dichlorophenol	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2,4-Dimethylphenol	50	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2,4-Dinitrophenol	10	<24.0	<25.0 [<24.0]	NA	<20.0	<22.0	NA	<24.0	<25.0	NA
2,4-Dinitrotoluene	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2,6-Dinitrotoluene	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2-Chloronaphthalene	10	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
2-Chlorophenol	1	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
2-Methylnaphthalene	- -	<2.40	<2.50 [<2.40]	<2.30 B	<2.00	<2.20	<2.00 B	<2.40	<2.50	<2.00 B
2-Methylphenol	- -	<12.0	NA	NA	<10.0	NA	NA	<12.0	NA	NA
2-Nitroaniline	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
2-Nitrophenol	- -	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
3&4-Methylphenol	- -	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
3,3'-Dichlorobenzidine	5	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
3-Nitroaniline	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-27S			MW-28D			MW-28S		
Sample Depth (ft BGS):		5 - 15			18 - 28			4 - 14		
Date Collected:		06/26/12	11/05/13	09/16/15	06/25/12	11/05/13	09/15/15	06/25/12	11/05/13	09/15/15
Semivolatile Organics (continued)										
4,6-Dinitro-2-methylphenol	- -	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
4-Bromophenyl-phenylether	- -	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
4-Chloro-3-Methylphenol	- -	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
4-Chloroaniline	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
4-Chlorophenyl-phenylether	- -	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
4-Nitroaniline	5	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
4-Nitrophenol	- -	<24.0	<25.0 J [<24.0 J]	NA	<20.0	<22.0 J	NA	<24.0	<25.0 J	NA
Acenaphthene	20	<2.40	<2.50 J [16.4 J]	<0.110	3.80	<2.20	4.30	9.90	4.50	5.10
Acenaphthylene	- -	<2.40	<2.50 [0.930 J]	<0.110	0.870 J	<2.20	1.40	3.10	1.00 J	1.50
Acetophenone	- -	NA	<13.0 [<12.0]	NA	NA	<11.0	NA	NA	<13.0	NA
Anthracene	50	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	0.0150 J
Atrazine	7.5	NA	<13.0 [<12.0]	NA	NA	<11.0	NA	NA	<13.0	NA
Benzaldehyde	- -	NA	<13.0 [<12.0]	NA	NA	<11.0	NA	NA	<13.0	NA
Benzo(a)anthracene	0.002	<2.40	<2.50 [<2.40]	<0.0570	<2.00	<2.20	<0.0510	<2.40	<2.50	<0.0510
Benzo(a)pyrene	- -	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Benzo(b)fluoranthene	0.002	<2.40	<2.50 [<2.40]	<0.0570 J	<2.00	<2.20	<0.0510 J	<2.40	<2.50	<0.0510 J
Benzo(g,h,i)perylene	- -	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Benzo(k)fluoranthene	0.002	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
bis(2-Chloroethoxy)methane	5	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
bis(2-Chloroethyl)ether	1	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
bis(2-Chloroisopropyl)ether	- -	<5.90	NA	NA	<5.10	NA	NA	<5.90	NA	NA
bis(2-Ethylhexyl)phthalate	5	<2.40	<2.50 [<2.40]	NA	<2.00 B	<2.20	NA	<2.40	<2.50	NA
Butylbenzylphthalate	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Caprolactam	- -	NA	<13.0 J [<12.0 J]	NA	NA	<11.0	NA	NA	<13.0 J	NA
Carbazole	- -	<2.40	<2.50 J [8.80 J]	NA	<2.00	<2.20	NA	<2.40	<2.50	NA
Chrysene	0.002	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Dibenzo(a,h)anthracene	- -	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Dibenzofuran	- -	<2.40	<2.50 [3.90]	NA	<2.00	<2.20	NA	<2.40	<2.50	NA
Diethylphthalate	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Dimethylphthalate	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Di-n-Butylphthalate	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90 B	<6.30	NA
Di-n-Octylphthalate	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Fluoranthene	50	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Fluorene	50	<2.40	<2.50 [5.10]	<0.110	<2.00	<2.20	0.150	<2.40	<2.50	<0.100
Hexachlorobenzene	0.04	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Hexachlorobutadiene	0.5	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Hexachlorocyclopentadiene	5	<12.0	<13.0 J [<12.0 J]	NA	<10.0	<11.0 J	NA	<12.0	<13.0 J	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-27S			MW-28D			MW-28S		
Sample Depth (ft BGS):		5 - 15			18 - 28			4 - 14		
Date Collected:		06/26/12	11/05/13	09/16/15	06/25/12	11/05/13	09/15/15	06/25/12	11/05/13	09/15/15
Semivolatile Organics (continued)										
Hexachloroethane	5	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Indeno(1,2,3-cd)pyrene	0.002	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Isophorone	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Naphthalene	10	<5.40 B	<2.50 [<2.40]	<2.30 B	<2.00 B	<2.20	<2.00 B	<2.40	<2.50	<2.00 B
Nitrobenzene	0.4	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
N-Nitroso-di-n-propylamine	- -	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
N-Nitrosodiphenylamine	50	<5.90	<6.30 [<6.00]	NA	<5.10	<5.50	NA	<5.90	<6.30	NA
Pentachlorophenol	- -	<12.0	<13.0 [<12.0]	NA	<10.0	<11.0	NA	<12.0	<13.0	NA
Phenanthrene	50	<2.40	<2.50 [5.70]	<0.0570	<2.00	<2.20	0.0300 J	<2.40	<2.50	0.0270 J
Phenol	1	<5.90	<6.30 J [<6.00 J]	NA	<5.10	<5.50 J	NA	<5.90	<6.30 J	NA
Pyrene	50	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<2.40	<2.50	<0.100
Total PAHs	- -	<21.9	<21.3 [43.7 J]	<3.05	19.7 J	<18.7	8.38 J	31.0	24.3 J	9.14 J
Inorganics										
Aluminum	- -	1,020	1,380 [1,150]	NA	237	187 B	NA	376	115 B	NA
Antimony	3	<6.00	<6.00 [<6.00]	NA	<6.00	<6.00	NA	<6.00	<6.00	NA
Arsenic	25	<4.00	<4.00 [<4.00]	NA	<4.00	<4.00	NA	<4.00 B	4.90	NA
Barium	1,000	43.9 B	45.4 B [43.7 B]	NA	170	188	NA	145	183	NA
Beryllium	- -	<4.00	<4.00 [<4.00]	NA	<4.00	<4.00	NA	<4.00	<4.00	NA
Cadmium	5	<4.00 B	1.00 B [0.800 B]	NA	<4.00	3.90 B	NA	**5.70**	<4.00	NA
Calcium	- -	57,000	47,800 [48,200]	NA	101,000	88,800	NA	72,100	84,800	NA
Chromium	50	<10.0 B	2.50 B [2.10 B]	NA	<10.0	<10.0	NA	<10.0	<10.0	NA
Cobalt	- -	<50.0 B	1.00 B [0.800 B]	NA	<50.0 B	0.700 B	NA	<50.0	<50.0	NA
Copper	200	4.40 B	<25.0 [<25.0]	NA	<25.0	<25.0	NA	<25.0	<25.0	NA
Cyanide	200	<10.0	<10.0 [<10.0]	<10.0	<10.0	<10.0	2.40 B	**240**	200	**270**
Iron	300	**1,760**	**1,570 [1,330]**	NA	**931**	**537**	NA	**3,140**	**3,170**	NA
Lead	25	<5.00	2.10 B [1.80 B]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Magnesium	- -	9,470	6,690 [6,960]	NA	22,800	22,000	NA	8,440	9,050	NA
Manganese	300	56.7	109 [87.4]	NA	**449**	**569**	NA	**969**	**1,150**	NA
Mercury	0.7	<0.200	<0.200 [<0.200]	NA	<0.200	<0.200	NA	<0.200	<0.200	NA
Nickel	100	<40.0 B	3.30 B [3.00 B]	NA	<40.0	3.40 B	NA	<40.0 B	0.800 B	NA
Potassium	- -	1,280 B	1,210 B [1,170 B]	NA	1,000 B	891 B	NA	2,040 B	2,130 B	NA
Selenium	10	<10.0	<10.0 [<10.0]	NA	<10.0	<10.0	NA	<10.0	<10.0	NA
Silver	50	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Sodium	- -	8,640	13,300 [13,400]	NA	41,400	37,300	NA	214,000	317,000	NA
Thallium	- -	<5.00	<5.00 [<5.00]	NA	<5.00	<5.00	NA	<5.00	<5.00	NA
Vanadium	- -	<10.0 B	3.00 B [<10.0]	NA	<10.0	<10.0	NA	<10.0	<10.0	NA
Zinc	2,000	11.2 B	14.5 B [12.3 B]	NA	4.70 B	5.00 B	NA	4.60 B	4.70 B	NA

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-29D			MW-29S		MW-30D		MW-30S	
Sample Depth (ft BGS):		35 - 45			5 - 15		24 - 34		5 - 15	
Date Collected:		06/26/12	11/06/13	09/15/15	11/06/13	09/15/15	06/26/12	11/06/13	06/27/12	11/06/13
Volatile Organics										
1,1,1-Trichloroethane	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J	NA	<0.500 J	NA	<1.00	<0.500 J	<1.00	<0.500 J
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
1,1,2-Trichloroethane	1	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	5	<1.00	<1.00 J	NA	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J
1,1-Dichloroethene	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	- -	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
1,2,4-Trichlorobenzene	5	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
1,2-Dibromoethane	- -	NA	<2.00	NA	<2.00	NA	NA	<2.00	NA	<2.00
1,2-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	NA	<1.00	NA	<1.00
1,2-Dichloroethane	0.6	<1.00 J	<1.00 J	NA	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J
1,2-Dichloropropane	1	<2.00	<2.00	NA	<2.00	NA	<2.00	<2.00	<2.00	<2.00
1,3-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	NA	<1.00	NA	<1.00
1,4-Dichlorobenzene	3	NA	<1.00 J	NA	<1.00 J	NA	NA	<1.00 J	NA	<1.00 J
1,4-Dioxane	- -	NA	<25.0 J	NA	<25.0 J	NA	NA	<25.0 J	NA	<25.0 J
2-Butanone	- -	<5.00	<5.00 J	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
2-Hexanone	50	<5.00 J	<5.00 J	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
4-Methyl-2-pentanone	- -	<5.00 J	<5.00	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
Acetone	50	<5.00	<10.0 J	NA	<10.0 J	NA	<5.00	<10.0 J	<5.00	<10.0 J
Benzene	1	<0.500	<0.500	<0.500 J	<0.500	<0.500 J	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	- -	NA	<5.00 J	NA	<5.00 J	NA	NA	<5.00 J	NA	<5.00 J
Bromodichloromethane	50	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Bromoform	50	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Bromomethane	5	<2.00 J	<2.00	NA	<2.00	NA	<2.00	<2.00	<2.00 J	<2.00
Carbon Disulfide	- -	<5.00	<5.00	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
Carbon Tetrachloride	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	5	<1.00	<1.00 J	NA	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J
Chloroethane	5	<2.00	<2.00	NA	<2.00	NA	<2.00	<2.00	<2.00	<2.00
Chloroform	7	<1.00	<1.00 J	NA	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J
Chloromethane	- -	<2.00 J	4.80	NA	2.80	NA	<2.00	<2.00	<2.00 J	1.80 J
cis-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	NA	<0.500	NA	<0.500	<0.500	<0.500	<0.500
Cyclohexane	- -	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
Dibromochloromethane	50	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	5	NA	<2.00	NA	<2.00	NA	NA	<2.00	NA	<2.00
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-29D			MW-29S		MW-30D		MW-30S	
Sample Depth (ft BGS):		35 - 45			5 - 15		24 - 34		5 - 15	
Date Collected:		06/26/12	11/06/13	09/15/15	11/06/13	09/15/15	06/26/12	11/06/13	06/27/12	11/06/13
Volatile Organics (continued)										
Isopropylbenzene	5	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
Methyl acetate	- -	NA	<5.00 J	NA	<5.00 J	NA	NA	<5.00 J	NA	<5.00 J
Methyl tert-butyl ether	- -	NA	<1.00	NA	<1.00	NA	NA	<1.00	NA	<1.00
Methylcyclohexane	- -	NA	<5.00	NA	<5.00	NA	NA	<5.00	NA	<5.00
Methylene Chloride	5	<2.00	<2.00	NA	<2.00	NA	<2.00	<2.00	<2.00	<2.00
Styrene	5	<5.00	<5.00	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
Tetrachloroethene	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	1.20	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	0.4	<0.500 J	<0.500	NA	<0.500	NA	<0.500	<0.500	<0.500	<0.500
Trichloroethene	5	<1.00	<1.00	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	5	NA	<1.00	NA	<1.00	NA	NA	<1.00	NA	<1.00
Vinyl Chloride	2	<1.00	<1.00 J	NA	<1.00 J	NA	<1.00	<1.00 J	<1.00	<1.00 J
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00
Semivolatile Organics										
1,1'-Biphenyl	5	NA	<12.0	NA	<12.0	NA	NA	<12.0	NA	<13.0
1,2,4,5-Tetrachlorobenzene	- -	NA	<12.0	NA	<12.0	NA	NA	<12.0	NA	<13.0
1,2,4-Trichlorobenzene	5	<5.60	NA	NA	NA	NA	<5.60	NA	<5.90	NA
1,2-Dichlorobenzene	3	<5.60	NA	NA	NA	NA	<5.60	NA	<5.90	NA
1,3-Dichlorobenzene	3	<5.60	NA	NA	NA	NA	<5.60	NA	<5.90	NA
1,4-Dichlorobenzene	3	<5.60	NA	NA	NA	NA	<5.60	NA	<5.90	NA
2,4,5-Trichlorophenol	1	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2,4,6-Trichlorophenol	1	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2,4-Dichlorophenol	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2,4-Dimethylphenol	50	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2,4-Dinitrophenol	10	<22.0	<24.0	NA	<24.0	NA	<22.0	<25.0	<24.0	<25.0
2,4-Dinitrotoluene	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2,6-Dinitrotoluene	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2-Chloronaphthalene	10	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
2-Chlorophenol	1	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
2-Methylnaphthalene	- -	<2.20	<2.40	<2.40 B	<2.40	<2.00 B	<2.20	<2.50	<2.40	<2.50
2-Methylphenol	- -	<11.0	NA	NA	NA	NA	<11.0	NA	<12.0	NA
2-Nitroaniline	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
2-Nitrophenol	- -	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
3&4-Methylphenol	- -	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
3,3'-Dichlorobenzidine	5	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
3-Nitroaniline	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-29D			MW-29S		MW-30D		MW-30S	
Sample Depth (ft BGS):		35 - 45			5 - 15		24 - 34		5 - 15	
Date Collected:		06/26/12	11/06/13	09/15/15	11/06/13	09/15/15	06/26/12	11/06/13	06/27/12	11/06/13
Semivolatile Organics (continued)										
4,6-Dinitro-2-methylphenol	- -	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
4-Bromophenyl-phenylether	- -	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
4-Chloro-3-Methylphenol	- -	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
4-Chloroaniline	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
4-Chlorophenyl-phenylether	- -	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
4-Nitroaniline	5	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
4-Nitrophenol	- -	<22.0	<24.0 J	NA	<24.0 J	NA	<22.0	<25.0 J	<24.0	<25.0 J
Acenaphthene	20	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Acenaphthylene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Acetophenone	- -	NA	<12.0	NA	<12.0	NA	NA	<12.0	NA	<13.0
Anthracene	50	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Atrazine	7.5	NA	<12.0	NA	<12.0	NA	NA	<12.0	NA	<13.0
Benzaldehyde	- -	NA	<12.0	NA	<12.0	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	<2.20	<2.40	<0.0590	<2.40	<0.0500	<2.20	<2.50	<2.40	<2.50
Benzo(a)pyrene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Benzo(b)fluoranthene	0.002	<2.20	<2.40	<0.0590 J	<2.40	<0.0500 J	<2.20	<2.50	<2.40	<2.50
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Benzo(k)fluoranthene	0.002	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
bis(2-Chloroethoxy)methane	5	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
bis(2-Chloroethyl)ether	1	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
bis(2-Chloroisopropyl)ether	- -	<5.60	NA	NA	NA	NA	<5.60	NA	<5.90	NA
bis(2-Ethylhexyl)phthalate	5	3.50	0.780 J	NA	<2.40	NA	<2.20	<2.50	0.720 J	2.30 J
Butylbenzylphthalate	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Caprolactam	- -	NA	<12.0 J	NA	<12.0 J	NA	NA	<12.0 J	NA	<13.0 J
Carbazole	- -	<2.20	<2.40	NA	<2.40	NA	<2.20	<2.50	<2.40	<2.50
Chrysene	0.002	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Dibenzofuran	- -	<2.20	<2.40	NA	<2.40	NA	<2.20	<2.50	<2.40	<2.50
Diethylphthalate	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Dimethylphthalate	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Di-n-Butylphthalate	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90 B	<6.30
Di-n-Octylphthalate	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Fluoranthene	50	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Fluorene	50	<2.20	<2.40	0.0180 J	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Hexachlorobenzene	0.04	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Hexachlorobutadiene	0.5	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Hexachlorocyclopentadiene	5	<11.0 J	<12.0 J	NA	<12.0 J	NA	<11.0	<12.0 J	<12.0	<13.0 J

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-29D			MW-29S		MW-30D		MW-30S	
Sample Depth (ft BGS):		35 - 45			5 - 15		24 - 34		5 - 15	
Date Collected:		06/26/12	11/06/13	09/15/15	11/06/13	09/15/15	06/26/12	11/06/13	06/27/12	11/06/13
Semivolatile Organics (continued)										
Hexachloroethane	5	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Indeno(1,2,3-cd)pyrene	0.002	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Isophorone	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Naphthalene	10	<2.20	<2.40	<2.40 B	<2.40	<2.00 B	<2.20 B	<2.50	<2.40	<2.50
Nitrobenzene	0.4	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
N-Nitroso-di-n-propylamine	- -	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
N-Nitrosodiphenylamine	50	<5.60	<6.00	NA	<5.90	NA	<5.60	<6.20	<5.90	<6.30
Pentachlorophenol	- -	<11.0	<12.0	NA	<12.0	NA	<11.0	<12.0	<12.0	<13.0
Phenanthrene	50	<2.20	<2.40	0.0270 J	<2.40	<0.0500	<2.20	<2.50	<2.40	<2.50
Phenol	1	<5.60 J	<6.00 J	NA	<5.90 J	NA	<5.60	<6.20 J	<5.90	<6.30 J
Pyrene	50	<2.20	<2.40	0.0200 J	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50
Total PAHs	- -	<18.7	<20.4	3.12 J	<20.4	<2.68	<18.7	<21.3	<20.4	<21.3
Inorganics										
Aluminum	- -	76.2 B	1,580	NA	382	NA	1,230	120 B	62,100	5,470
Antimony	3	<6.00	<6.00	NA	<6.00	NA	<6.00	<6.00	<6.00	<6.00
Arsenic	25	<4.00	<4.00	NA	<4.00	NA	<4.10 B	<4.00	**77.7**	8.20
Barium	1,000	179	22.5 B	NA	105	NA	280	329	808	210
Beryllium	- -	<4.00	<4.00	NA	<4.00	NA	<4.00	<4.00	3.20 B	0.300 B
Cadmium	5	<4.00	<4.00	NA	0.700 B	NA	<4.00	<4.00	**19.2**	1.80 B
Calcium	- -	91,700	20,900	NA	86,800	NA	86,900	81,400	260,000	112,000
Chromium	50	<10.0	9.60 B	NA	<10.0	NA	<10.0 B	<10.0	**92.0**	8.20 B
Cobalt	- -	<50.0	1.00 B	NA	0.900 B	NA	<50.0 B	<50.0	61.6	7.60 B
Copper	200	<25.0	10.3 B	NA	<25.0	NA	4.80 B	<25.0	**216**	14.5 B
Cyanide	200	<10.0	<10.0	<10.0	110	7.60 B	<10.0	<10.0	16.0	14.0
Iron	300	28.9 B	**1,650**	NA	**435**	NA	**2,320**	**332**	**142,000**	**9,620**
Lead	25	<5.00	4.50 B	NA	<5.00	NA	<5.00	<5.00	**132**	6.80
Magnesium	- -	18,600	1,390 B	NA	14,200	NA	19,600	22,100	57,200	15,000
Manganese	300	<15.0 B	43.9	NA	**437**	NA	181	287	**6,830**	**1,650**
Mercury	0.7	0.0800 B	<0.200	NA	<0.200	NA	<0.200	<0.200	**0.840**	<0.200
Nickel	100	<40.0	27.9 B	NA	3.00 B	NA	<40.0 B	0.700 B	**132**	10.5 B
Potassium	- -	1,230 B	997 B	NA	2,400 B	NA	1,330 B	835 B	11,300	4,300 B
Selenium	10	<10.0	<10.0	NA	<10.0	NA	<10.0	<10.0	<10.0	<10.0
Silver	50	<5.00	<5.00	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
Sodium	- -	60,900	2,280 B	NA	72,900	NA	42,900	31,700	382,000	463,000
Thallium	- -	<5.00	<5.00	NA	<5.00	NA	<5.00	<5.00	<5.00	<5.00
Vanadium	- -	<10.0	6.00 B	NA	<10.0	NA	<10.0 B	<10.0	112	12.2
Zinc	2,000	<20.0	63.9	NA	8.90 B	NA	18.5 B	4.60 B	839	46.0

See Notes on Page 21

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Notes:

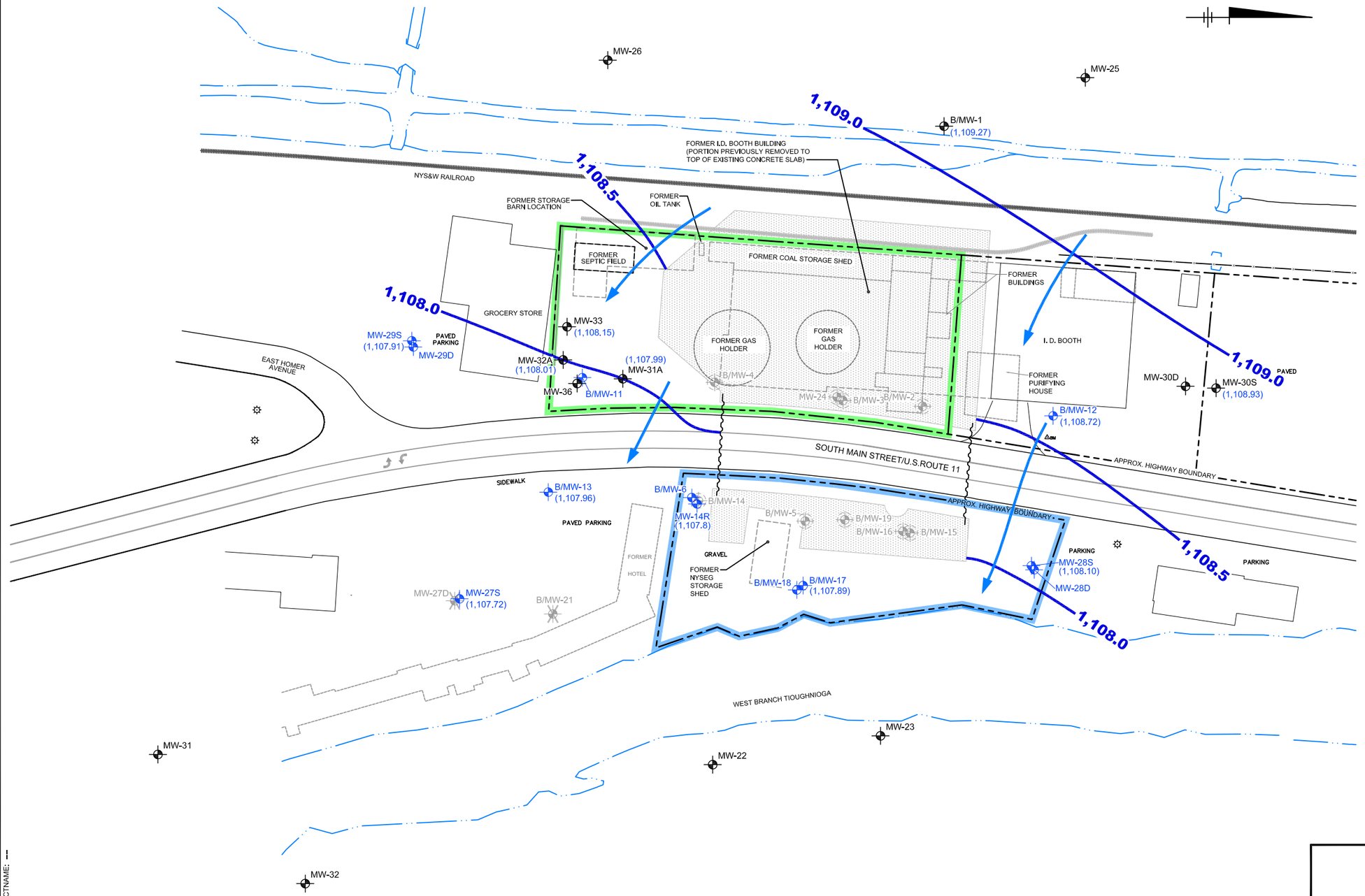
1. Baseline samples collected by ARCADIS from June 25-27, 2012, and post-in-situ soil solidification (ISS) samples collected by ARCADIS from November 5-6, 2013 and September 14-16, 2015.
2. Laboratory analysis was performed by Accutest Laboratories of Marlborough, Massachusetts for
   - Volatile organic compounds (VOCs) and/or BTEX (benzene, toluene, ethylbenzene, xylenes) using United States Environmental Protection Agency (USEPA) SW-846 Method 8260B
   - Semi-volatile organic compounds (SVOCs) and/or polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270C.
   - Inorganic constituents and/or total cyanide using USEPA SW-846 Methods 6010, 7470, and/or 9012.
3. Concentrations reported in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb)
4. Data qualifiers are defined as follows:
   J - Indicates an estimated value.
   < - Indicates that the compound was analyzed for but not detected. The associated value is the compound quantitation limit
   B - Indicates that the analyte was also detected in the associated method blank.
   D - Indicates that the analyte was quantified using a second dilution.
5. Total PAHs were calculated as the sum of the following, which is consistent with the NYSDEC list from: http://www.dec.ny.gov/chemical/24922.html:

2-Methylnaphthalene	Chrysene
Acenaphthene	Dibenzo(a,h)anthracene
Acenaphthylene	Fluoranthene
Anthracene	Fluorene
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene
Benzo(a)pyrene	Naphthalene
Benzo(b)fluoranthene	Phenanthrene
Benzo(g,h,i)perylene	Pyrene
Benzo(k)fluoranthene	

6. NYSDEC groundwater standards/guidance values are from the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1) dated June 1998, revised April 2000 and June 2004.
7. Shading indicates that the results exceeds the water quality standard/guidance value.
8. -- Indicates that no water quality standard or guidance value is available for this compound
9. [ ] Results shown in brackets represent field duplicates.
10. Results have been validated in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II Standard Operating Procedures, and the NYSDEC Analytical Services Protocol
11. bgs = below ground surface.

See Notes on Page 21

FIGURES



LEGEND:

- EXISTING MONITORING WELL IN MONITORING NETWORK
- EXISTING MONITORING WELL NOT IN MONITORING NETWORK
- WELLS DESTROYED DURING BUILDING DEMOLITION
- DECOMMISSIONED MONITORING WELL
- GROUNDWATER CONTOUR (0.5 FT. INTERVAL)
- (1,107.8) GROUNDWATER ELEVATION (SEPTEMBER 14, 2015)
- GROUNDWATER FLOW DIRECTION
- REMOVED/FORMER BUILDINGS
- FORMER MGP STRUCTURE
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE HIGHWAY BOUNDARY
- VBW
- ISS MONOLITH
- OPERABLE UNIT 1
- OPERABLE UNIT 2

NOTES:

1. BASEMAP SUPPLIED BY AECOM OF LATHAM, NEW YORK DRAWING NUMBER 3 AT A SCALE OF 1"=60', ENTITLED "NYSEG - REMEDIAL DESIGN FOR FORMER CORTLAND-HOMER MGP SITE" DATED APRIL 16, 2012.
2. BASE MAPPING COMPILED FROM VARIOUS SOURCES INCLUDING NEW YOUR STATE ELECTRIC & GAS (NYSEG) EXISTING PLANIMETRIC AND UTILITY INFORMATION, DIGITIZED INFORMATION FROM NYSDOT RECORD PLANS TITLED RECONSTRUCTION OF ROUTE 11 IN THE TOWN OF CORTLANDVILLE AND VILLAGE OF HOMER - DATED 5-17-02, DIGITIZED AERIAL IMAGERY FROM THE NEW YORK STATE GIS CLEARINGHOUSE, AND A FIELD SURVEY PERFORMED BY AECOM - DATED MAY 13, 2011.
3. FORMER SEPTIC SYSTEM AND OIL TANK TAKEN FROM A PLAN ENTITLED "INVESTIGATION OF FORMER COAL GASIFICATION SITES", DATED 1987 BY E.C. JORDAN CO.
4. THE LOCATION OF MONITORING WELLS MW-6, -11, -14R, -17, -18, -31, -32 AND -33 WERE SURVEYED ON NOVEMBER 21, 2013 BY J. OLMSTEAD & S. HOPE. ALL OTHER MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. VBW = VERTICAL BARRIER WALL.

0 80' 160'

GRAPHIC SCALE

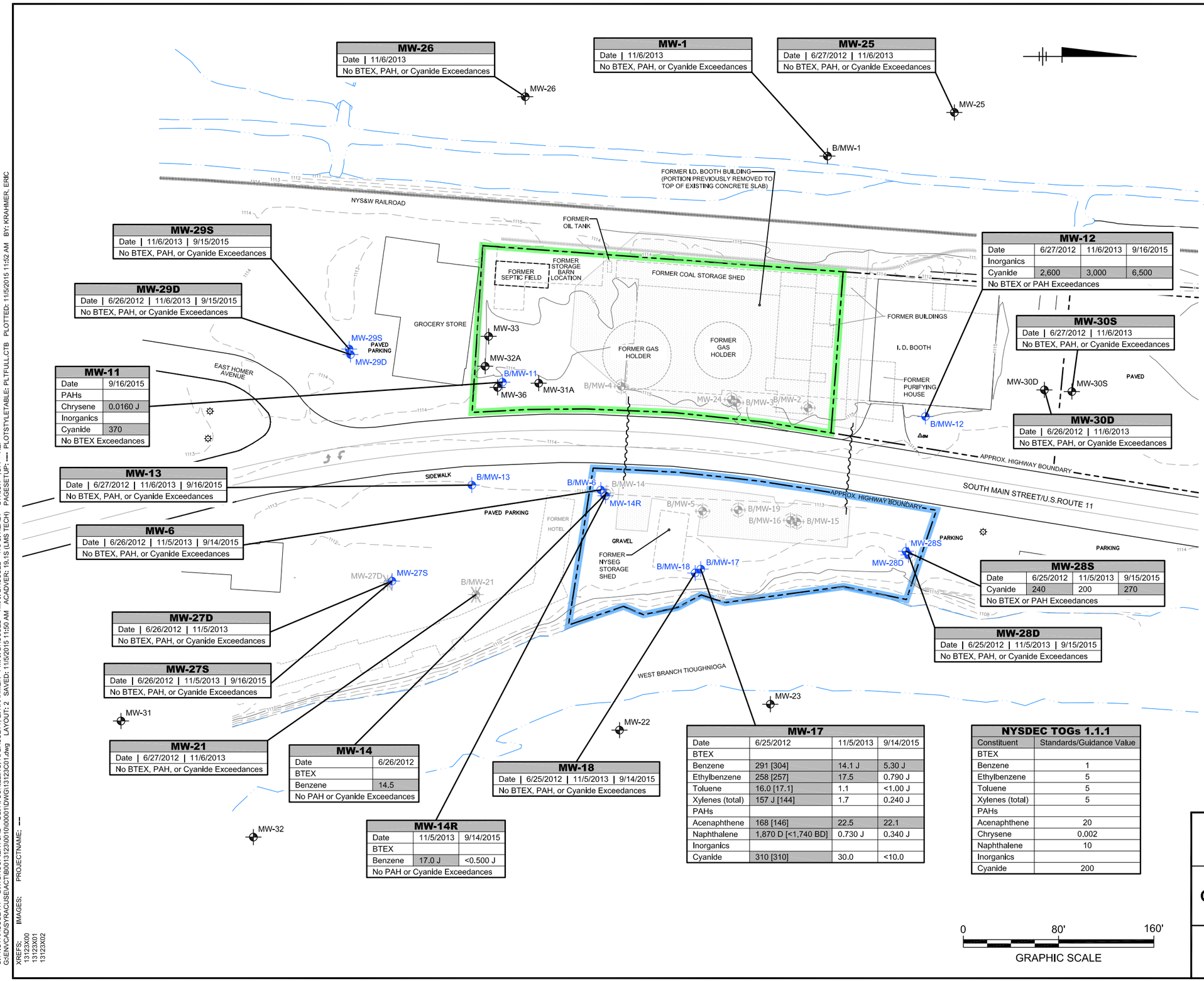
NYSEG
CORTLAND-HOMER FORMER MGP SITE
HOMER, NEW YORK

WATER-TABLE MAP - SEPTEMBER 14, 2015

ARCADIS

FIGURE 1

CITY:SYRACUSE NY DIV/GROUP:ENVCAD DB: A. SCHILLING, R. BASSETT, E. KRAHMER PM: J. BRUSSEL TM: J. BRUSSEL LYRON=*OFF*;*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00131230010000011\DWG\13123W01.dwg LAYOUT: 1 SAVED: 11/6/2015 9:01 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/6/2015 9:01 AM BY: KRAHMER, ERIC
XREFS: IMAGES: PROJECTNAME: ---
13123X00
13123X01
13123X02



LEGEND:

- EXISTING MONITORING WELL IN MONITORING NETWORK
- EXISTING MONITORING WELL NOT IN MONITORING NETWORK
- WELLS DESTROYED DURING BUILDING DEMOLITION
- DECOMMISSIONED MONITORING WELL
- REMOVED/FORMER BUILDINGS
- FORMER MGP STRUCTURE
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE HIGHWAY BOUNDARY
- VBW
- ISS MONOLITH
- OPERABLE UNIT 1
- OPERABLE UNIT 2

NOTES:

1. BASEMAP SUPPLIED BY AECOM OF LATHAM, NEW YORK DRAWING NUMBER 3 AT A SCALE OF 1"=60', ENTITLED "NYSEG - REMEDIAL DESIGN FOR FORMER CORTLAND-HOMER MGP SITE" DATED APRIL 16, 2012.
2. BASE MAPPING COMPILED FROM VARIOUS SOURCES INCLUDING NEW YOUR STATE ELECTRIC & GAS (NYSEG) EXISTING PLANIMETRIC AND UTILITY INFORMATION, DIGITIZED INFORMATION FROM NYSDOT RECORD PLANS TITLED RECONSTRUCTION OF ROUTE 11 IN THE TOWN OF CORTLANDVILLE AND VILLAGE OF HOMER - DATED 5-17-02, DIGITIZED AERIAL IMAGERY FROM THE NEW YORK STATE GIS CLEARINGHOUSE, AND A FIELD SURVEY PERFORMED BY AECOM - DATED MAY 13, 2011.
3. FORMER SEPTIC SYSTEM AND OIL TANK TAKEN FROM A PLAN ENTITLED "INVESTIGATION OF FORMER COAL GASIFICATION SITES", DATED 1987 BY E.C. JORDAN CO.
4. THE LOCATION OF MONITORING WELLS MW-6, -11, -14R, -17, -18, -31, -32 AND -33 WERE SURVEYED ON NOVEMBER 21, 2013 BY J. OLMSTEAD & S. HOPE. ALL OTHER MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. GROUNDWATER STANDARDS AND GUIDANCE VALUES ARE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DOCUMENT ENTITLED "DIVISION OF WATER, TECHNICAL AND OPERATIONAL GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS" (ISSUED JUNE 1998 AND REVISED IN APRIL 2000 AND JUNE 2004).
6. FIGURE ONLY SHOWS RESULTS FOR BTEX, PAHs, AND CYANIDE EXCEEDING THE STANDARDS PRESENTED IN TOGs 1.1.1.
7. SHADED VALUE INDICATES THAT THE CONSTITUENT CONCENTRATION EXCEEDS TOGs 1.1.1.
8. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L) WHICH IS EQUIVALENT TO PARTS PER BILLION (ppb).
9. BTEX - BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES.
10. PAHs - POLYCYCLIC AROMATIC HYDROCARBONS.
11. FIELD DUPLICATE SAMPLE RESULTS ARE PRESENTED IN BRACKETS [ ].
12. J - INDICATES AN ESTIMATED VALUE.
13. < = CONSTITUENT NOT DETECTED AT A CONCENTRATION ABOVE THE LABORATORY REPORTED DETECTION LIMIT.
14. B - INDICATES THAT THE ANALYTE WAS ALSO DETECTED IN THE ASSOCIATED METHOD BLANK.
15. D - INDICATES THAT THE ANALYTE WAS QUANTIFIED USING A SECOND DILUTION.
16. DATA HAVE BEEN VALIDATED.
17. ISS = IN-SITU STABILIZATION.
18. VBW = VERTICAL BARRIER WALL.

NYSEG
CORTLAND-HOMER FORMER MGP SITE
HOMER, NEW YORK

GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE
2

CITY:SYRACUSE NY DIV/GROUP:ENVCAD DB: A. SCHILLING, R. BASSETT, E. KRAHMER PM: J. BRUSSEL TM: J. BRUSSEL TR: C. HEALY LYRON:*OFF*;*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0013123\00100\0000\1\DWG\13123C01.dwg LAYOUT: 2 SAVED: 11/5/2015 11:50 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/5/2015 11:52 AM BY: KRAHMER, ERIC
XREFS:
13123X00
13123X01
13123X02
IMAGES:
PROJECTNAME: ---

ATTACHMENT A

Groundwater Sampling Logs

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Client / Job Number: NYSEG Cortland / Homer
Weather: Partly Cloudy, Breezy
Well ID: MW-6
Date: 9/14/2015
Time In: 14:15 **Time Out:**

Well Information

Depth to Water:	(feet)	5.04	(from MP)
Total Depth:	(feet)	26.08	(from MP)
Length of Water Column:	(feet)	21.04	
Volume of Water in Well:	(gal)	3.43	
Intake depth for tubing:	(feet)	~20	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☐		No ☒	
Well Diameter:	1"	2" (circled)	Other:	

Purging Information

Purging Method:	Bailer ☐		Bladder ☐		Monsoon ☐	Other: Peri	
Tubing/Bailer Material:	Steel ☐		Polyethylene ☒		Teflon ☐	Other:	
Sampling Method:	Bailer ☒		Peristaltic ☒		Monsoon ☐	Other:	
Pump Start Time:	1415					15138	
Pump Stop Time:	1555		Water-Quality Meter Type:		Horiba		
Total Volume Removed:	(gal)		Did well go dry:	Yes ☐	No ☒		

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	14:20	14:25	14:30	14:35	14:40	14:45	14:50	1455	1500
Volume Purged (Gal)									
Rate (mL/min)	120	110	110	110	120	100	100	100	100
Depth to Water (ft.)	5.09	5.07	5.07	5.07	5.07	5.08	5.07	5.07	5.07
pH	7.91	7.69	7.67	7.65	7.63	7.61	7.58	7.57	7.53
Temp. (C)	19.13	17.89	17.80	17.58	17.51	17.79	18.03	18.02	17.85
Conductivity (mS/cm)	0.823	0.837	0.839	0.838	0.839	0.839	0.839	0.836	0.837
Dissolved Oxygen (mg/L)	20.71	8.14	7.00	6.37	5.91	5.50	5.20	5.71	5.05
ORP (mV)	146	156	160	163	165	167	169	170	169
Turbidity (NTU)	2.6	4.0	4.9	5.0	5.3	6.1	7.1	8.0	10.1
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
TCN	1		↓
PAH	2		↓
Color: None			
Odor: None			
Appearance: Clear			
Sample ID: MW-6	Sample Time: 1545		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☒	No ☐		
Duplicate ID	Dup. Time:		
Chain of Custody Signed By: R. Herr			

DUP_2015_9_14

Problems / Observations

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Client / Job Number: NYSEG Cortland / Homer
Weather: Partly Cloudy, Breezy
Well ID: MW-6
Date: 9/14/2015
Time In: 14:15 **Time Out:**

Well Information

See page 1

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:			
Pump Start Time:							
Pump Stop Time:		Water-Quality Meter Type:					
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☐			

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	15:05	15:10	15:15	15:20	15:25	15:30	15:35	15:40	1545
Volume Purged (Gal)								3	
Rate (mL/min)	100	100 5.07	100	100	100	100	100	100	S
Depth to Water (ft.)	5.07	[illegible]	5.07	5.07	5.07	5.07	5.07	5.07	A
pH	7.47	7.25	7.23	7.22	7.21	7.21	7.20	7.20	m
Temp. (C)	17.57	17.60	17.83	18.01	18.11	18.12	18.24	18.46	P
Conductivity (mS/cm)	0.856	0.878	0.889	0.891	0.891	0.892	0.892	0.891	l
Dissolved Oxygen (mg/L)	5.00	4.74	4.59	4.51	5.20	4.66	4.49	4.38	e
ORP (mV)	134	20	9	6	4	2	2	3	
Turbidity (NTU)	10.6	13.6	14.5	17.2	21.3	22.7	22.0	22.7	
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest

Color:	
Odor:	
Appearance:	
Sample ID:	Sample Time:
MS/MSD: Yes ☐	No ☐
Duplicate: Yes ☐	No ☐
Duplicate ID DUP-20150914	Dup. Time:
Chain of Custody Signed By:	

Problems / Observations

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-11
Client / Job Number:
Date: 9/16/15
Weather: SUNNY
Time In: 14:05 **Time Out:** 16:00

Well Information

Depth to Water:	(feet)	7.31	(from MP)
Total Depth:	(feet)	11.50	(from MP)
Length of Water Column:	(feet)	4.19	
Volume of Water in Well:	(gal)	0.68	
Intake depth for tubing:	(feet)	~8	

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☒	No ☐		
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Rev.		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	14:05					
Pump Stop Time:		Water-Quality Meter Type:	Horiba			
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2 x	3	4	5	6	7	8	9
Time	1410	1415	1420	1425	1430	1435	14:40	14:45	14:50
Volume Purged (Gal)									
Rate (mL/min)	100	80	80	80	80	80	80	80	80
Depth to Water (ft.)	7.40	7.38	7.40	7.40	7.38	7.38	7.35	7.34	7.35
pH	6.66	6.68	6.71	6.71	6.73	6.71	6.69	6.67	6.66
Temp. (C)	22.49	20.79	20.70	20.59	20.47	19.90	20.24	20.64	21.09
Conductivity (mS/cm)	0.814	0.807	0.794	0.793	0.787	0.794	0.793	0.793	0.794
Dissolved Oxygen (mg/L)	0.98	0.74	0.62	0.55	0.53	0.67	0.87	1.28	1.88
ORP (mV)	-35	-49	-58	-67	-72	-72	-68	-62	-55
Turbidity (NTU)	8.4	3.5	0.0	0.0	0.0	3.2	4.0	4.9	5.3
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
T-CN	1		"
PAH	2		"
Color: None			
Odor: None			
Appearance: None			
Sample ID: MW-11	Sample Time: 1540		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID: —	Dup. Time: —		
Chain of Custody Signed By: Rebecca Hensel			

Problems / Observations

* Sheen observed on Purge Water Bucket

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-11
Client / Job Number:
Date: 9/16/2015
Weather: Sunny
Time In: 14:05 **Time Out:** 1600

Well Information

Depth to Water:	(feet)	See	(from MP)
Total Depth:	(feet)		(from MP)
Length of Water Column:	(feet)	Page 1	
Volume of Water in Well:	(gal)		
Intake depth for tubing:	(feet)		

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	1400			15138		
Pump Stop Time:	15	Water-Quality Meter Type:		Horiba		
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	14:55	15:00	15:05	15:10	15:15	15:20	15:25	15:30	15:35
Volume Purged (Gal)									
Rate (mL/min)	80 *	80	80	80	80	80	80	80	80
Depth to Water (ft.)	7.40	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38
pH	6.68	6.69	6.75	6.77	6.78	6.77	6.79	6.79	6.79
Temp. (C)	21.58	21.92	21.37	20.77	20.66	20.53	20.12	19.91	19.67
Conductivity (mS/cm)	0.793	0.790	0.783	0.778	0.778	0.776	0.775	0.775	0.773
Dissolved Oxygen (mg/L)	2.01	1.78	1.09	0.72	0.63	0.54	0.48	0.46	0.44
ORP (mV)	-47	-46	-68	-75	-77	-81	-83	-84	-85
Turbidity (NTU)	5.6	5.6	2.8	2.8	3.1	3.1	3.4	3.4	3.4
Notes:	* Water stopped flowing temporarily								

15:40 SAMPLE

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest
Color:			
Odor:			
Appearance:			
Sample ID:		Sample Time:	
MS/MSD:	Yes ☐	No ☐	
Duplicate:	Yes ☐	No ☐	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

See Page 1

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-12
Client / Job Number:
Date: 9/16/2015
Weather: SUNNY
Time In: 12:25 **Time Out:** 1350

Well Information

Depth to Water:	(feet)	6.51	(from MP)
Total Depth:	(feet)	11.60	(from MP)
Length of Water Column:	(feet)	5.09	
Volume of Water in Well:	(gal)	0.824	
Intake depth for tubing:	(feet)	~8	

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☒	PVC ☐		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☐	No ☒		
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri Pump		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	~~12:30~~ 12:25				18451	
Pump Stop Time:	/		Water-Quality Meter Type:	Horiba		
Total Volume Removed: ~2 (gal)			Did well go dry:	Yes ☐	No ☒	

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	12:30	12:35	12:40	1245	1250	1255	1300	1305	1310
Volume Purged (Gal)									~2
Rate (mL/min)	150	120	80	80	110	80	80	80	80
Depth to Water (ft.)	7.08	7.95	7.79	7.75	7.86	8.05	8.00	7.95	7.95
pH	7.01	6.76	6.75	6.75	6.76	6.80	6.79	6.78	6.78
Temp. (C)	21.53	19.51	19.71	19.93	19.92	19.29	18.53	19.62	19.66
Conductivity (mS/cm)	1.59	1.62	1.63	1.63	1.62	1.62	1.63	1.69	1.63
Dissolved Oxygen (mg/L)	3.49	1.23	1.10	1.02	1.21	1.78	1.63	1.63	1.76
ORP (mV)	304	326	327	332	332	331	329	329	329
Turbidity (NTU)	30.3	47.9	42.8	29.4	13.8	16.3	16.05	15.3	14.0
Notes:									

1315 SAMPLE

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
PAHs	2		"
T-CN	1		"
Color: None			
Odor: None			
Appearance: Clear			
Sample ID: MW-12			Sample Time:
MS/MSD:	Yes ☐		No ☒
Duplicate:	Yes ☐		No ☒
Duplicate ID			Dup. Time:
Chain of Custody Signed By: Rebecca Hensel			

Problems / Observations

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-13
Client / Job Number:
Date: 9/16/2015
Weather: SUNNY
Time In: 10:40 **Time Out:**

Well Information

Depth to Water:	5.38 (feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount	☒	Stick-Up	☐	
Well Material:	Stainless Steel	☒	PVC	☐	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☐	No	☒	
Well Diameter:	1"	2"	Other:		

Purging Information

Purging Method:	Bailer	☐	Bladder	☐	Monsoon	☐	Other: Peri Pump
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 10:40
Pump Stop Time: 1128
Total Volume Removed: 2 (gal)
Water-Quality Meter Type: Horiba 18451
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	10:45	10:50	10:55	11:00	11:05	11:10			
Volume Purged (Gal)					~2	S			
Rate (mL/min)	130	130	110	110	110	A			
Depth to Water (ft.)	5.41	5.43	5.41	5.41	5.41	M			
pH	7.14	7.10	7.09	7.09	7.08	P			
Temp. (C)	17.46	16.01	15.82	15.90	15.98	L			
Conductivity (mS/cm)	0.862	0.882	0.888	0.891	0.892	E			
Dissolved Oxygen (mg/L)	3.13	0.85	0.70	0.67	0.70				
ORP (mV)	167	173	173	173	171				
Turbidity (NTU)	8.1	1.5	0.0	0.0	0.0				
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
PAH	2		"
T-CN	1		"

Color: None
Odor: None
Appearance: Clear
Sample ID: MW-13 Sample Time: 1110
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID Dup. Time:
Chain of Custody Signed By: Rebecca Hensel

Problems / Observations

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-14R
Client / Job Number:
Date: 9/14
Weather: Partly Cloudy
Time In: **Time Out:**

Well Information

Depth to Water:	(feet)	4.88	(from MP)
Total Depth:	(feet)	13.01	(from MP)
Length of Water Column:	(feet)	8.13	
Volume of Water in Well:	(gal)	1.33	
Intake depth for tubing:	(feet)	~8	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☐		No ☒	
Measuring Point Marked:	Yes ☐		No ☒	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:	Peri	
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:						
Pump Stop Time:			Water-Quality Meter Type:	Horiba		
Total Volume Removed:	(gal)		Did well go dry:	Yes ☐	No ☒	

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1420	1425	1430	1435	1440	1445	1450	1455	1500
Volume Purged (Gal)									
Rate (mL/min)									
Depth to Water (ft.)	4.90	4.95	4.95	4.95	4.95	4.95	4.95	5.00	5.02
pH	7.11	6.96	6.94	6.93	6.93	6.93	6.93	6.93	6.92
Temp. (C)	20.62	20.25	20.35	20.84	20.71	20.71	20.86	20.47	20.42
Conductivity (mS/cm)	1.09	1.10	1.11	1.11	1.13	1.14	1.13	1.12	1.14
Dissolved Oxygen (mg/L)	5.13	3.42	3.27	3.37	3.31	2.94	2.75	2.47	2.21
ORP (mV)	104	119	123	126	129	132	134	140	144
Turbidity (NTU)	8.8	6.9	5.6	3.9	4.0	3.2	2.1	1.0	.3
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
TCN	1		↓
PAH	2		↓
Color: None			
Odor: None			
Appearance: None			
Sample ID: MW-14R	Sample Time: 1615		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By:			

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Herbst
Well ID: MW-14R
Client / Job Number:
Date: 9/14/15
Weather:
Time In: **Time Out:**

Well Information

See Page 1

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:

Pump Start Time:
Pump Stop Time: Water-Quality Meter Type:
Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	
Time	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550
Volume Purged (Gal)										
Rate (mL/min)										
Depth to Water (ft.)	5.00	5.00	5.00	5.00	5.00	4.95	5.00	5.00	5.00	
pH	6.91	6.90	6.89	6.90	6.89	6.89	6.87	6.89	6.88	6.88
Temp. (C)	20.31	20.38	20.87	21.04	21.16	21.31	21.14	21.17	21.07	21.14
Conductivity (mS/cm)	1.17	1.23	1.30	1.36	1.40	1.45	1.45	1.54	1.55	1.65
Dissolved Oxygen (mg/L)	151	1.67	1.58	1.55	1.35	1.34	1.36	1.36	1.37	1.25
ORP (mV)	150	154	154	156	156	156	157	160	161	164
Turbidity (NTU)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes:										

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest

Color:
Odor:
Appearance:
Sample ID: Sample Time:
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID Dup. Time:
Chain of Custody Signed By:

Problems / Observations

See Page 1

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-14R
Client / Job Number:
Date:
Weather:
Time In: **Time Out:**

Well Information

See page 1

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:

Pump Start Time:
Pump Stop Time: Water-Quality Meter Type:
Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1555	1600	1605	1610	1615				
Volume Purged (Gal)									
Rate (mL/min)									
Depth to Water (ft.)	5.00	5.00	5.00	5.00					
pH	6.88	6.87	6.87	6.87					
Temp. (C)	21.13	21.02	20.91	20.92					
Conductivity (mS/cm)	1.77	1.81	1.84	1.87					
Dissolved Oxygen (mg/L)	1.16	1.09	1.11	1.09					
ORP (mV)	169	171	177	174					
Turbidity (NTU)	0.0	0.0	0.0	0.0					
Notes:									

SAMPLE

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest

Color:
Odor:
Appearance:
Sample ID: Sample Time:
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID Dup. Time:
Custody Signed By:

Problems / Observations

See page 1

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-17
Client / Job Number:
Date: 9/14/2015
Weather: Partly Cloudy, Breezy
Time In: 1210 **Time Out:** 1305

Well Information

Depth to Water:	(feet)	6.86	(from MP)
Total Depth:	(feet)	10.58	(from MP)
Length of Water Column:	(feet)	3.72	
Volume of Water in Well:	(gal)	0.61	
Intake depth for tubing:	(feet)	~8Ft	

Well Type:		Flushmount ☐		Stick-Up ☒	
Well Material:		Stainless Steel ☒		PVC ☐	
Well Locked:		Yes ☒		No ☐	
Measuring Point Marked:		Yes ☐		No ☒	
Well Diameter:	1"	(2")	Other:		

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:			
Pump Start Time:	~~1230~~ 1210						
Pump Stop Time:	1310	Water-Quality Meter Type:	Horriba				
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☒			

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1215	1220	1225	1230	1235	1240	1245	1250	1255
Volume Purged (Gal)				~1 gal				~	2.5
Rate (mL/min)									
Depth to Water (ft.)	6.87	6.89	6.90	6.90	6.90	6.90	6.90	6.90	6.90
pH	7.33	7.07	7.07	7.07	7.08	7.06	7.07	7.07	7.07
Temp. (C)	20.40	19.92	19.47	19.25	18.99	18.88	18.82	18.81	18.81
Conductivity (mS/cm)	1.09	1.12	1.13	1.14	1.12	1.12	1.11	1.11	1.11
Dissolved Oxygen (mg/L)	2.25	6.97	0.81	0.71	0.62	0.59	0.60	0.57	0.57
ORP (mV)	-110	-129	-130	-130	-127	-128	-129	-129	-128
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes:	Sample 1300								

Sampling Information

Analyses	#	n	Laboratory
BTEX 8260	3		Accutest
PAH 8270	2		"
T-CN	1		"
Color: None			
Odor: None			
Appearance: None			
Sample ID: MW-17	Sample Time: 1255		
MS/MSD: Yes ☒	No ☐		
Duplicate: Yes ☐	No ☐		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By:	R. Hensel		

MW-17

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-18
Client / Job Number: NYSEG Cortland/Homer
Date: 9/14/15
Weather: Partly Cloudy
Time In: 12:30 **Time Out:** 13:30

Well Information

Depth to Water:	(feet)	6.76	(from MP)
Total Depth:	(feet)	30.14	(from MP)
Length of Water Column:	(feet)	23.38	
Volume of Water in Well:	(gal)	3.81	
Intake depth for tubing:	(feet)	~25	

Well Type:		Flushmount ☐		Stick-Up ☒	
Well Material:		Stainless Steel ☒		PVC ☐	
Well Locked:		Yes ☒		No ☐	
Measuring Point Marked:		Yes ☐		No ☒	
Well Diameter:	1"	2"	Other:		

Purging Information

Purging Method:	Bailer	☐	Bladder	☐	Monsoon	☐	Other: Peri Pump
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 1215 / 15138
Pump Stop Time: 1325
Water-Quality Meter Type: Horiba
Total Volume Removed: 2 (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1230	1235	1240	12:45	12:50	12:55	13:00	13:05	13:10 (1315)
Volume Purged (Gal)									2
Rate (mL/min)	90	100	100	100	100 (6.77 DTW)	100	100	100	100
Depth to Water (ft.)	6.80	6.78	6.78	6.77	~~6.112~~	6.77	6.77	6.77	6.77
pH	9.09	9.12	9.14	9.14	9.14	9.15	9.15	9.14	9.10
Temp. (C)	18.63	17.95	17.68	17.45	17.29	17.23	17.22	17.19	17.20
Conductivity (mS/cm)	0.500	0.502	0.501	0.499	0.498	0.498	0.499	0.500	0.504
Dissolved Oxygen (mg/L)	10.70	8.83	7.87	6.94	6.42	6.11	5.72	5.53	5.39
ORP (mV)	31	46	50	54	57	60	62	64	66
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes:									

SAMPLE

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
TCN	1		↓
PAH	2		↓
Color: None			
Odor: None			
Appearance:			
Sample ID: MW-18	Sample Time: 1315		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID: —	Dup. Time: —		
Chain of Custody Signed By: R. Hulse			

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-27 S
Client / Job Number:
Date: 9/16/2015
Weather: SUNNY
Time In: 8:25 **Time Out:**

Well Information

Depth to Water:	4.75 (feet)	(from MP)
Total Depth:	12.11 (feet)	(from MP)
Length of Water Column:	(feet) 7.36	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet) ~10	

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☒		
Measuring Point Marked:	Yes ☐	No ☒		
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri Pump		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	8:25					
Pump Stop Time:		Water-Quality Meter Type:	Horiba			
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☐		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	8:30	8:35	8:40	8:45	8:50	8:55	9:00	9:05	9:10
Volume Purged (Gal)									
Rate (mL/min)	120	100	100	100	80	100	100	120	80
Depth to Water (ft.)	4.94	4.89	4.89	4.89	4.85	4.85	4.85	4.95	4.90
pH	6.73	6.53	6.51	6.51	6.51	6.52	6.53	6.55	6.56
Temp. (C)	16.26	16.20	15.99	15.88	15.80	15.68	15.69	15.75	15.72
Conductivity (mS/cm)	0.480	0.466	0.452	0.455	0.461	0.469	0.478	0.487	0.508
Dissolved Oxygen (mg/L)	2.84	2.01	1.36	1.06	0.94	0.88	0.78	0.66	0.58
ORP (mV)	185	189	189	189	188	187	185	182	180
Turbidity (NTU)	4.8	7.2	3.4	2.3	1.2	2.5	2.5	2.0	1.5
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
PAHs	2		"
T-CN	1		"
Color: Clear			
Odor: None			
Appearance: Clear			
Sample ID: MW-27S	Sample Time:		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By: Rebecca Hensel			

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-27S
Client / Job Number:
Date: 9/16/2015
Weather: SEE PAGE 1
Time In: **Time Out:**

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐	Stick-Up ☐		
Well Material:	Stainless Steel ☑	PVC ☐		
Well Locked:	Yes ☐	No ☐		
Measuring Point Marked:	Yes ☐	No ☐		
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:

Pump Start Time:
Pump Stop Time: Water-Quality Meter Type:
Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3*	4	5	6	7	8	9
Time	9:15	9:20	9:25	9:30	9:35	9:40	9:45	9:50	9:55
Volume Purged (Gal)								~3	S
Rate (mL/min)	60	60	80	80	80	80	80	80	A
Depth to Water (ft.)	4.85	4.80	4.85	4.85	4.85	4.85	4.85	4.85	M
pH	6.56	6.57	6.57	6.59	6.60	6.61	6.62	6.63	P
Temp. (C)	15.72	15.75	15.81	15.92	15.97	16.07	16.14	16.22	L
Conductivity (mS/cm)	0.514	0.521	0.535	0.549	0.557	0.569	0.578	0.584	E
Dissolved Oxygen (mg/L)	0.54	0.53	0.55	0.54	0.52	0.51	0.50	0.49	
ORP (mV)	179	178	177	175	174	172	171	169	
Turbidity (NTU)	0.8	0.6	1.2	1.0	0.9	0.9	0.8	0.8	
Notes:	* Pump dicel just before this								

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest
Color:			
Odor:			
Appearance:			
Sample ID:		Sample Time:	
MS/MSD: Yes ☐		No ☐	
Duplicate: Yes ☐		No ☐	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

See Page 1

0 0 6 10

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW 28-S
Client / Job Number:
Date: 9/15/15
Weather: SUNNY
Time In: 1635 **Time Out:** 1730

Well Information

Depth to Water:	(feet)	3.58	(from MP)
Total Depth:	(feet)	13.25	(from MP)
Length of Water Column:	(feet)	9.67	
Volume of Water in Well:	(gal)	1.58	
Intake depth for tubing:	(feet)	~ 10	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐		Bladder ☐		Monsoon ☐	Other:	Peri Pump
Tubing/Bailer Material:	Steel ☐		Polyethylene ☒		Teflon ☐	Other:	
Sampling Method:	Bailer ☒		Peristaltic ☒		Monsoon ☐	Other:	

Pump Start Time: 16:35
Pump Stop Time: 17:20
Total Volume Removed: (gal)
Water-Quality Meter Type: Horiba 018451
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	16:40	16:45	16:50	16:55	17:00	17:05	17:10	1715	
Volume Purged (Gal)							22	S	
Rate (mL/min)	80	80	80	80	80	80	80	A	
Depth to Water (ft.)	3.63	3.61	3.62	3.62	3.63	3.63	3.63	M	
pH	6.78	6.77	6.77	6.76	6.76	6.77	6.76	P	
Temp. (C)	20.63	19.83	19.86	19.90	19.89	19.97	19.94	L	
Conductivity (mS/cm)	3.52	3.41	3.42	3.43	3.41	3.39	3.36	F	
Dissolved Oxygen (mg/L)	1.09	0.66	0.65	0.61	0.60	0.55	0.54	S	
ORP (mV)	-75	-79	-85	-87	-90	-92	-93		
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Notes:	Lots of biofilm.								

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
T-CN	1		"
PAH	2		"
Color: Clear			
Odor: None			
Appearance:			
Sample ID: MW-28S	Sample Time: 1715		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By: R. Ilem			

Problems / Observations

Biofilm Present in Sample

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Henson
Client / Job Number: NYSEG - Cortland Homer
Weather: 70s Sunny
Well ID: MW-328D
Date: 9/15/15
Time In: **Time Out:**

Well Information

Depth to Water:	(feet)	6.43	(from MP)
Total Depth:	(feet)	26.79	(from MP)
Length of Water Column:	(feet)	20.36	
Volume of Water in Well:	(gal)	3.32	
Intake depth for tubing:	(feet)	~20	

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☒	Red	
Measuring Point Marked:	Yes ☐	No ☐		
Well Diameter:	1"	2" (circled)	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	1635			18451		
Pump Stop Time:	1735	Water-Quality Meter Type:	Horiba			
Total Volume Removed:	2 (gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1640	1645	1650	1655	1700	1705	1710	1715	1720
Volume Purged (Gal)									
Rate (mL/min)	100	100							
Depth to Water (ft.)	3.45	3.45	3.45	3.45	3.45	3.95	3.45	3.45	3.45
pH	7.62	7.10	7.09	7.09	7.09	7.10	7.10	7.10	7.11
Temp. (C)	18.61	18.13	18.30	18.56	18	18.54	18.47	18.46	18.37
Conductivity (mS/cm)	0.811	0.818	0.822	0.829	0.836	0.831	0.830	0.831	0.832
Dissolved Oxygen (mg/L)	9.43	7.04	5.91	5.42	5.26	5.09	4.99	4.88	4.83
ORP (mV)	45	45	29	20	15	5	4992	0	-3
Turbidity (NTU)	38.3	34.1	26.2	25.0	24.6	24.7	25.4	25.9	30.8
Notes:									

1725 S A M P L

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
TCN	1		
PAH	2		
Color:	None		
Odor:	None		
Appearance:	Clear		
Sample ID:	MW-328D	Sample Time:	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID	—	Dup. Time:	—
Chain of Custody Signed By:	R. Henson		

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Dan Dohman
Well ID: MW-29S
Client / Job Number:
Date: 9/15/2015
Weather: SUNNY
Time In: 13:30 **Time Out:** 14:10

Well Information

Depth to Water:	5.91 (feet)	(from MP)
Total Depth:	(feet) 14.82	(from MP)
Length of Water Column:	(feet) 8.91	
Volume of Water in Well:	(gal) 1.44	
Intake depth for tubing:	(feet) ~10	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☐		No ☒	
Measuring Point Marked:	Yes ☐		No ☒	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Per. Pump			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:			

Pump Start Time: 13:35
Pump Stop Time: 14:10
Water-Quality Meter Type: Horiba 18452
Total Volume Removed: (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	13:40	13:45	13:50	13:55	14:00	14:00	1405		
Volume Purged (Gal)						~2			
Rate (mL/min)	80	80	80	80	80	80	S		
Depth to Water (ft.)	6.18	6.21	6.18	6.19	6.19	6.19	A		
pH	6.82	6.73	6.72	6.71	6.71	6.70	M		
Temp. (C)	23.10	21.58	21.25	21.29	21.33	21.24	P		
Conductivity (mS/cm)	1.20	1.23	1.22	1.22	1.22	1.21	L		
Dissolved Oxygen (mg/L)	1.82	1.24	1.06	0.84	0.80	0.72	E		
ORP (mV)	159	161	162	162	162	161	S		
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0	0.0			
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
T-CN	1		↓
PAH	2		↓
Color: None			
Odor: None			
Appearance:			
Sample ID: MW-29S	Sample Time: 1405		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By: R. Hay			

Problems / Observations

NYSEG-Cortland Homer — Site

2015 Groundwater Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Client / Job Number:
Weather: 70s Sunny

Well ID: MW-29D
Date: 9/15/15
Time In: 1380 **Time Out:** 1605

Well Information

Depth to Water:	(feet)	5.73	(from MP)
Total Depth:	(feet)	41.35	(from MP)
Length of Water Column:	(feet)	35.62	
Volume of Water in Well:	(gal)	5.81	
Intake depth for tubing:	(feet)	~35	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☐		No ☒	
Measuring Point Marked:	Yes ☐		No ☒	
Well Diameter:	1"	2" (circled)	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other: Peri.		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	1335					
Pump Stop Time:	1555	Water-Quality Meter Type:	Horiba U-52			
Total Volume Removed:	3 (gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1340	1345	1350	1355	1400	1405	1410	1415	1420
Volume Purged (Gal)	200								1
Rate (mL/min)	~~80~~	80	80	→	→	→	→	→	→
Depth to Water (ft.)	6.25	6.20	6.15	6.11	6.05	6.10	6.10	6.10	6.10
pH	7.55	7.43	7.40	7.32	7.27	7.25	7.27	7.23	7.21
Temp. (C)	19.54	19.18	18.45	19.07	19.35	19.46	19.05	18.96	18.66
Conductivity (mS/cm)	0.124	0.122	0.125	0.127	0.140	0.153	0.183	0.201	0.231
Dissolved Oxygen (mg/L)	15.43	12.55	9.55	8.21	7.01	6.49	6.25	5.90	5.59
ORP (mV)	-111	-113	-114	-113	-112	-109	-108	-106	-104
Turbidity (NTU)	7.3	6.1	2.5	2.4	2.3	2.1	1.8	1.9	1.5
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX	3		Accutest
T-CN	1		↓
PAH	2		↓
Color:			
Odor:			
Appearance:			
Sample ID: MW-29D	Sample Time:		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By: R Hens			

Problems / Observations

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-29D
Client / Job Number:
Date:
Weather:
Time In: **Time Out:**

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

See Page 1

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:			
Pump Start Time:							
Pump Stop Time:		Water-Quality Meter Type:					
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☐			

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2 *	3	4 *	5	6	7	8	9
Time	1425	1430	1435	1440	1445	1450	1455	1500	1505
Volume Purged (Gal)							2		
Rate (mL/min)	80				100	100	100	100	100
Depth to Water (ft.)	6.1		6.10	6.10	6.10	6.20	6.20	6.20	6.20
pH	7.21	7.22	7.21		7.22	7.21	7.20	7.20	7.20
Temp. (C)	18.83	19.07	19.15	19.12	19.10	19.05	17.89	17.87	17.89
Conductivity (mS/cm)	0.234		0.303	0.326	0.334	0.385	0.439	0.460	0.478
Dissolved Oxygen (mg/L)	5.47		5.11		6.20	5.22	5.37	5.24	5.20
ORP (mV)	-102	-102	-94		-86	-81	-70	-66	-63
Turbidity (NTU)	1.4	1.2	1.7		2.30	2.7	3.9	3.7	3.6
Notes:									

Sampling Information

See pg 3

Analyses	#	n	Laboratory
BTEX			Accutest

Color:	
Odor:	
Appearance:	
Sample ID:	Sample Time:
MS/MSD: Yes ☐	No ☐
Duplicate: Yes ☐	No ☐
Duplicate ID	Dup. Time:
Chain of Custody Signed By:	

Problems / Observations

* Pump stopped

NYSEG-Cortland Homer — *Site*

2015 Groundwater Sampling — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: R. Hensel
Well ID: MW-29D
Client / Job Number:
Date: 9/15/15
Weather: 70s Sunny
Time In: **Time Out:**

Well Information

See Page 1

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Bladder ☐	Monsoon ☐	Other:			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:			
Pump Start Time:							
Pump Stop Time:		Water-Quality Meter Type:					
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☐			

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1510	1515	1520	1525	1530	1535	1540	1545	
Volume Purged (Gal)							3	S	
Rate (mL/min)	100	→	→	→	→	→	→	A	
Depth to Water (ft.)	6.20	6.20	6.20	6.20	6.20	6.20	6.20	M	
pH	7.19	7.18	7.18	7.18	7.18	7.18	7.18	P	
Temp. (C)	17.58	17.55	17.39	17.30	17.38	17.28	17.30	L	
Conductivity (mS/cm)	.550	.572	.608	.622	.635	0.638	0.640	E	
Dissolved Oxygen (mg/L)	5.23	5.25	5.28	5.21	5.14	5.06	5.03		
ORP (mV)	-51	-44	-39	-35	-32	-26	-27		
Turbidity (NTU)	2.8	2.6	2.5	2.2	1.5	0.8	0.7		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
BTEX			Accutest

Color:	
Odor:	
Appearance:	
Sample ID:	Sample Time:
MS/MSD: Yes ☐	No ☐
Duplicate: Yes ☐	No ☐
Duplicate ID	Dup. Time:
Chain of Custody Signed By:	

Problems / Observations