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New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
Bureau of Program Management
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Subject:
July 2017 Monthly Report
Site Management/RSO
Fort Edward Landfill
NYSDEC Site No. 558001
Contract No. D007618-39

Date:
August 30, 2017

Contact:
Andy Vitolins

Dear Mr. Long:

Arcadis CE, Inc. (Arcadis) has prepared this letter report to summarize the leachate collection and treatment system operation, maintenance, and monitoring (OM&M) activities completed during the July 2017 reporting period.

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Leachate Collection and Treatment System Operation and Maintenance

Email:
andy.vitolins@arcadis.com

The leachate collection system operated with no downtime during the July 2017 operating period. A total of 526,569 gallons of leachate were collected and treated through the system during July 2017. The corresponding average leachate recovery rate for the month was approximately 11.8 gallons per minute (gpm).

Our ref:
00266434.0000

The following O&M activities were completed during the July 2017 operating period:

- Iron and solids sludge processing was performed throughout the month. In total, two 55-gallon drums of sludge were generated during July 2017;
- Offsite transport and disposal of hazardous and non-hazardous containerized Filter Press Sludge as well as one rusted, empty drum. As discussed during our weekly conference call on August, 23, 2017, the waste was transported off-site to the subcontractor transfer facility, but is being held at the destination facility pending results of additional analytical results requested by the disposal facility.

- The pump in extraction well EW-3 was removed and inspected on July 18, 2017 due to insufficient in flow. The pump was found to be operating outside of the operating limits of the pump, resulting in poor pump performance. The pump was replaced with a spare, properly-sized, pump that was being stored in the treatment plant.
- Brush cutting was performed in select areas of the landfill for access to groundwater monitoring well locations.
- Dewatering activities for Unnamed Pond were temporarily resumed in accordance with the proposed dewatering memo dated June 6, 2017. Drive well points were installed to further monitor groundwater within the pond. Dewatering was later suspended due to persistent rain events and will be resumed in September/October 2017, pending the precipitation forecast;
- Based on iron staining observed in the southern mid-cap swale, two landfill drains within the southern midcap swale were sampled for analysis of volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), metals, total dissolved solids (TDS), and total suspended solids (TSS). A discussion of the analytical results is provided below.

System Optimization

Remedial system optimization activities completed in July 2017 included the following:

- ARIES chemical was on-site on July 13, 2017 to review the current treatment system. ARIES proposed chemical adjustments to the current sludge processing for optimization of the Filter Press operation. The chemical adjustment will be temporarily implemented in August 2017.

System Sampling

The monthly samples were collected on July 31, 2017 from the following locations:

- Treatment System Influent (i.e. combined flow from extraction wells EW-1, EW-2, EW-3, and EW-4);
- Clarifier Catch Tank discharge;
- Cell 1, Cell 2, and Cell 3 (i.e. treatment cell discharge into the effluent collection chamber);
- Polishing Pond Effluent.

Extraction wells EW-1, EW-2, EW-3, and EW-4 were sampled this month as part of the annual monitoring event.

The monthly routine samples were submitted to Con-Test Analytical for analysis of volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), metals, total dissolved solids (TDS), and total suspended solids (TSS). Perfluorinated alkyl substances (PFAS) and 1,4-dioxane were also analyzed as part of the annual monitoring event and submitted to TestAmerica Laboratories.

The analytical results are discussed in the sections below and have been summarized in Table 1. The analytical results will also be presented in the 2017 Groundwater Annual report. The laboratory analytical data will be submitted to NYSDEC's EIMS Administrator in the required EQuIS EDD format.

Analytical Results

VOCs

As shown in Table 1, VOCs were detected in the EW-1, EW-2, EW-3, Influent and Clarifier Catch Tank discharge at concentrations that exceeded the NYSDEC Class GA Groundwater Standards. EW-1 contained eight VOCs, EW-2 contained one VOC, and EW-3 contained three VOCs at concentrations greater than the respective NYSDEC Standards. The sample from EW-1 contained cis-1,2-dichloroethene (cDCE) (1,600 micrograms per liter [$\mu\text{g/L}$]) and vinyl chloride (3,000 $\mu\text{g/L}$). These compounds were also present in the combined influent to the treatment system (Influent) and treatment plant discharge (Clarifier Catch) at concentrations that exceeded the NYSDEC Class GA Groundwater Standards. As shown in Table 1, the Influent sample concentrations of cDCE and vinyl chloride were 8.9 $\mu\text{g/L}$ and 14 $\mu\text{g/L}$, respectively; the Clarifier Catch sample concentrations of cDCE and vinyl chloride were 25 $\mu\text{g/L}$ and 37 $\mu\text{g/L}$, respectively. Table 1 shows that VOCs were detected at estimated concentrations and did not exceed NYSDEC Standards in the effluent collection chamber samples (Cell 1, Cell 2, and Cell 3). As shown in Table 1, no VOCs were detected at concentrations greater than the respective quantitation limits in the Effluent sample from the Polishing Pond. No VOCs were detected at concentrations greater than the respective quantitation limits in the two landfill drain samples.

PCBs

PCB-1016 was the only PCB Aroclor detected in the samples collected from EW-1, EW-4, Influent, and Clarifier Catch Tank at concentrations greater than the NYSDEC Class GA Groundwater Standard. PCBs were not detected in the effluent collection chamber samples at Cell 2 or the Polishing Pond Effluent sample during the July 2017 sampling event (Table 1). During monthly sampling events since July 2016, PCB Aroclor 1221, 1232, or 1242 have generally been detected in the Influent or Clarifier Catch Tank samples. The concentration of Aroclor 1016 in the July 2017 sample from the Influent (25 $\mu\text{g/L}$) decreased compared to the June 2017 result (80 $\mu\text{g/L}$). PCBs were not detected in the two landfill drain samples.

Metals

Iron and manganese were detected at all the sample locations at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standard and Effluent Limitation of 0.3 mg/L and 0.6 mg/L, respectively. The highest concentration of iron and manganese was detected in the sample from EW-4 at 60 mg/L and 2.0 mg/L, respectively. As shown in Table 1, the Effluent samples also contained iron and manganese concentrations (3.6 mg/L and 1.9 mg/L, respectively) above the respective NYSDEC Class GA Groundwater Standard and/or Effluent Limitations. Table 1 also shows that the concentration of iron increased by an order of magnitude after being discharged from the treatment plant and flowing through the treatment cells. Iron and manganese were also detected in the landfill drain samples at concentrations greater than the respective quantitation limits. Iron and manganese ranged from 8.2 mg/L to 17 mg/L and 0.28 mg/L to 0.31 mg/L, respectively.

TDS and TSS

The concentrations of TDS and TSS continue to fluctuate between sampling events. During the July sampling event, TDS concentrations ranged between 240 mg/L and 1,200 mg/L; TSS concentrations ranged from non-detect and 110 mg/L. These data are consistent with the results from previous sampling events. Since September 2016, TDS and TSS have ranged from 210 to 1,300 mg/L and 0 to 120 mg/L,

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respectively. TDS and TSS ranged from 100 to 150 mg/L and 9.0 to 14 mg/L respectively in the landfill drains.

Next Reporting Period Planned Activities

The following activities are anticipated for August 2017:

- Brush cutting and clearing along the landfill drainage swales, the perimeter of the treatment cells, and near well vaults and other structures;
- Continued dewatering and monitoring of Unnamed Pond; and
- Continuation of iron and solids treatment and processing;

If you have any questions, please do not hesitate to contact me or Jeremy Wyckoff.

Sincerely,

Arcadis CE, Inc.

Andy Vitolins
Associate Vice President, P.G.

Copies:

Jeremy Wyckoff, Arcadis
File

Enclosures:

Table

- 1 July Treatment System Analytical Data

Table 1. July Treatment System Analytical Data, Fort Edward Landfill
Fort Edward, New York. NYSDEC Site No. 558001

Chemical Name	NYSDEC Class GA GW Standard	NYSDEC Class GA GW Effluent Limitation	EW-1	EW-2	EW-3	EW-4	INFLUENT	CLARIFIER CATCH	CELL 3	CELL 2	CELL 1	EFFLUENT
			7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Volatile Organic Compounds (ug/L)												
ACETONE	50	50	50.0 U	12.0 J	9.9 J	50.0 U	50.0 U	8.1 J	50.0 U	50.0 U	50.0 U	50.0 U
BENZENE	1	1	10.00 J	4.70	4.60	1.00 U	0.47 J	0.74 J	1.00 U	1.00 U	1.00 U	1.00 U
BROMOCHLOROMETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMODICHLOROMETHANE	50	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1 J	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-BUTANONE (MEK)	50	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CARBON DISULFIDE	60	60	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
CARBON TETRACHLORIDE	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CHLOROBENZENE	5	5	7.80 J	1.4	32.00	1.00 U	0.76 J	1.30	1.00 U	1.00 U	1.00 U	1.00 U
CHLORODIBROMOMETHANE	50	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	5	2.00 U	2.00 U	0.79 J	2.00 U	2.0 U	2.0 U	2.00 U	2.0 U	2.0 U	2.0 U
CYCLOHEXANE	--	--	5.0 U	5.0 U	1.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	0.04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.0006	0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	3	1.00 U	1.00 U	0.57 J	1.00 U	1.0 U	1.0 U	1.00 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	3	3	1.00 U	1.00 U	0.34 J	1.00 U	1.0 U	1.0 U	1.00 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	3	3	1.00 U	0.49 J	6.50	1.00 U	0.21 J	0.31 J	1.00 U	1.00 U	1.00 U	1.00 U
DICHLORODIFLUOROMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-DICHLOROETHANE	5	5	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHYLENE	5	5	1600.00	0.45 J	1.00 U	1.00 U	8.90	25.00	0.85 J	4.50	1.00 U	1.00 U
TRANS-1,2-DICHLOROETHYLENE	5	5	16.00 J	1.00 U	1.00 U	1.00 U	0.26 J	0.46 J	1.00 U	1.00 U	1.00 U	1.00 U
1,2-DICHLOROETHANE	0.6	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	5	5	7.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	0.4	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DIOXANE	--	--	140.0	48.0	1.3	3.9	8.2	11.0	1.3	5.7	5.5	2.5
ETHYLBENZENE	5	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.13 J	1.00 U	1.00 U	1.00 U	1.00 U
2-HEXANONE	50	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ISOPROPYLBENZENE (CUMENE)	5	5	1.00 U	0.40 J	1.20	1.00 U	1.0 U	0.18 J	1.00 U	1.00 U	1.00 U	1.00 U
METHYL ACETATE	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYL TERT-BUTYL ETHER (MTBE)	10	10	1.00 U	0.96 J	0.69 J	0.09 J	0.09 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
METHYL CYCLOHEXANE	--	--	1.00 U	1.00 U	0.65 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
METHYLENE CHLORIDE	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	5	930	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-TETRACHLOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHYLENE (PCE)	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	5	5	12.00 J	1.00 U	1.00 U	1.00 U	0.20 J	0.51 J	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-TRICHLOROBENZENE	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-TRICHLOROBENZENE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE (TCE)	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	2	2	3000	2.0 U	2.0 U	2.0 U	14	37	2.0 U	2.0 U	2.0 U	2.0 U
M,P-XYLENES	5	5	24.00 J	1.20 J	2.0 U	2.00 U	0.26 J	0.37 J	2.00 U	2.00 U	2.00 U	2.00 U
O-XYLENE (1,2-DIMETHYLBENZENE)	5	5	1.00 U	0.17 J	0.18 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
XYLENES, TOTAL	5	5	3.0 U	1.2 J	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:
Constituents detected above the NYSDEC Class GA GW Standard are in **bold**.
Constituents detected above the NYSDEC Class GA GW Effluent Limitation are highlighted in yellow.

Definitions:
NYSDEC Class GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard and Guidance Value.
NYSDEC Class GA GW Effluent Limitation - New York State Department of Environmental Conservation Effluent Limitation.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
J - The concentration is an approximate value.
mg/L - milligrams per liter
ug/L - micrograms per liter
NS - Not Sampled

Table 1. July Treatment System Analytical Data, Fort Edward Landfill
Fort Edward, New York. NYSDEC Site No. 558001



Chemical Name	NYSDEC Class GA GW Standard	NYSDEC Class GA GW Effluent Limitation	EW-1	EW-2	EW-3	EW-4	INFLUENT	CLARIFIER CATCH	CELL 3	CELL 2	CELL 1	EFFLUENT
			7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Polychlorinated Biphenyls (ug/L)												
PCB-1016 (AROCOLOR 1016)	*	*	250.00	0.20 U	0.20 U	0.63	25.00	21.00	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1221 (AROCOLOR 1221)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1232 (AROCOLOR 1232)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1242 (AROCOLOR 1242)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1248 (AROCOLOR 1248)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1254 (AROCOLOR 1254)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1260 (AROCOLOR 1260)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1262 (AROCOLOR 1262)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
PCB-1268 (AROCOLOR 1268)	*	*	100 U	0.2 U	0.2 U	0.2 U	4.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/L)												
ALUMINUM	--	2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.57	0.086	0.062	0.05 U	0.05 U
ANTIMONY	0.003	0.006	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ARSENIC	0.025	0.05	0.0034	0.0250	0.0098	0.0083	0.0059	0.0100 U	0.0180	0.0062	0.0061	0.0034
BARIUM	1	2	0.520	0.120	0.300	0.086	0.080	0.061	0.082	0.073	0.050 U	0.052
BERYLLIUM	0.003	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
CADMIUM	0.005	0.01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
CALCIUM	--	--	170	130	80	100	96	97	70	110	110	89
CHROMIUM, TOTAL	0.05	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
COBALT	--	--	0.0075	0.0080	0.0090	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
COPPER	0.2	1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
IRON	0.3	0.6	55.0	22.0	33.0	60.0	40.0	4.3	16.0	11.0	8.2	3.6
LEAD	0.025	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
MAGNESIUM	35	35	58	45	39	24	24	26	12	20	16	21
MANGANESE	0.3	0.6	1.40	1.10	0.21	2.00	1.90	1.80	0.99	1.50	0.85	1.90
MERCURY	0.0007	0.0014	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
NICKEL	0.1	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
POTASSIUM	--	--	35.0	2.6	49.0	3.7	4.3	6.3	3.2	2.0 U	2.0 U	2.0 U
SELENIUM	0.01	0.02	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SILVER	0.05	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
SODIUM	--	--	210	110	120	52	53	75	15	60	22	40
THALLIUM	0.0005	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
VANADIUM	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
ZINC	2	5	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Conventional Chemistry (mg/L)												
TOTAL DISSOLVED SOLIDS	--	--	1200	750	730	410	430	480	240	490	380	410
TOTAL SUSPENDED SOLIDS	--	--	30	35	40	110	84	14	54	17	5 U	14
Chemical Name	NYSDEC Standard		EW-1	EW-2	EW-3	EW-4	INFLUENT	CLARIFIER CATCH	CELL 3	CELL 2	CELL 1	EFFLUENT
			7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Perfluorinated Alkyl Substance (ng/L)												
Perfluorobutanesulfonic acid (PFBS)	70		7.5	2.7	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorohexanesulfonic acid (PFHxS)	70		47.0	15.0	12.0	1.7 J	2.9	3.6	1.1 J	2.3	2.0	1.9 J
Perfluoroheptanoic acid (PFHpA)	70		160.0	28.0	29.0	8.3	12.0	14.0	6.3	11.0	8.0	11.0
Perfluorooctanoic acid (PFOA)	70		1300	68	64	20	37	63	14	41	27	23
Perfluorooctanesulfonic acid (PFOS)	70		73.0 B	23.0	21.0	7.6	7.8	8.2	2.6	5.0	4.4	2.3
Perfluorononanoic acid (PFNA)	70		2.8	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.9 J	2.0 U	2.0 U	2.0 U
Total PFAS	70		1590.3	136.7	129.0	37.6	59.7	88.8	24.0	59.3	41.4	38.2

Notes:
 Constituents detected above the NYSDEC Class GA GW Standard are in **bold**.
 Constituents detected above the NYSDEC Class GA GW Effluent Limitation are highlighted in yellow.
 * The NYSDEC Class GA GW Standard and Effluent Limitation for PCBs is 0.09 ug/L.
 The NYSDEC has currently set a standard of 70 nanograms/liter for individual and total PFAS. Constituents detected above this standard are highlighted in orange.

Definitions:
 NYSDEC Class GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard and Guidance Value.
 NYSDEC Class GA GW Effluent Limitation - New York State Department of Environmental Conservation Effluent Limitation.
 U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 J - The concentration is an approximate value.
 mg/L - milligrams per liter
 ng/L - nanograms per liter
 ug/L - micrograms per liter
 NS - Not Sampled