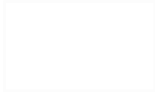


ISTR Operations Monthly Progress Report

Reporting Period: September 2021



**Operable Unit 3 VOC Source Area Remedy
Former Grumman Settling Ponds, Bethpage, NY**

NYSDEC Site No. 130003A

October 27, 2021

In-Situ Thermal Remediation (ISTR) Operations Monthly Progress Report

Prepared per Section 8.2 of the OU3 Remedial Action Work Plan (RAWP) and DER-10, Section 5.7(b):

1. Remedy Progress / Performance Monitoring
2. Ambient Air
3. Significant Activities
4. Schedule / Proposed Modifications
5. Pending RAWP Modifications
6. Data Tables

ISTR Operations Summary

- Air emissions comply with effluent concentration limits specified in the RAWP
- No exceedances of NYSDEC Community Air Monitoring Plan (CAMP) PID action levels*
- Liquid discharges comply with criteria specified in the RAWP*

* See slides 11 and 12 for additional information

Reporting Period: September 2021

System Startup	8/26/2020
Days of Operation Since Startup	400
Estimated cumulative TVOC Mass Removed, lbs	1,355

Cumulative TVOC Mass Removed

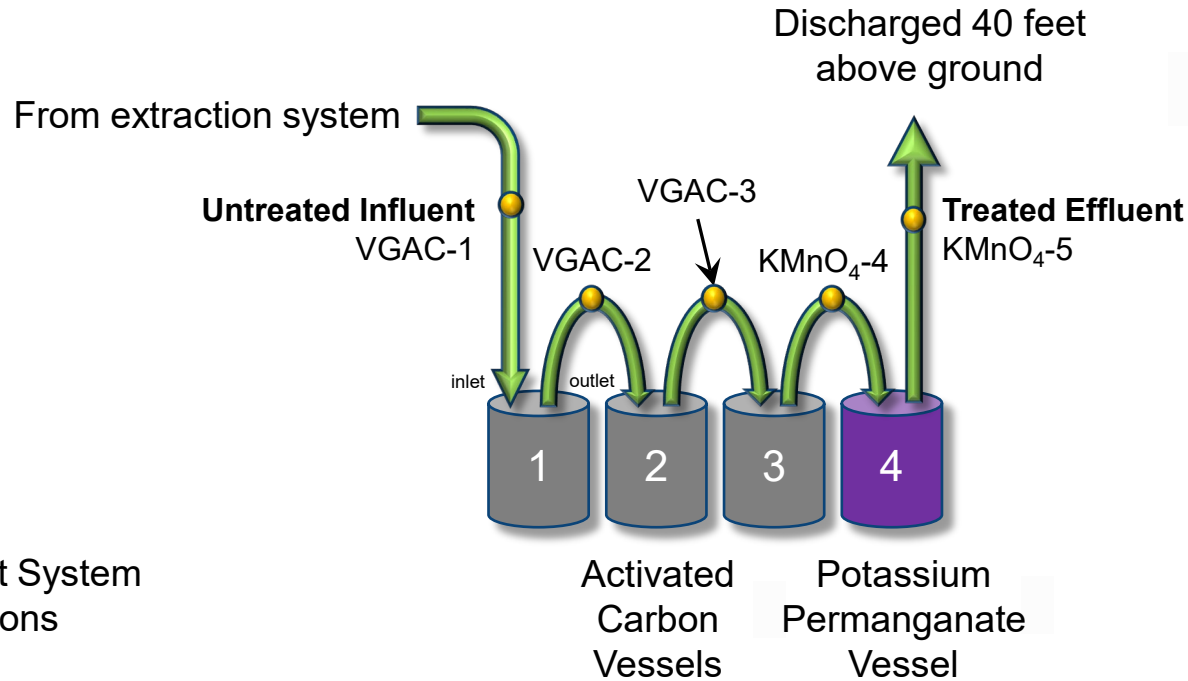


Estimated 1,355 lbs of total volatile organic compounds (TVOCs) removed through 9/30.

Cumulative TVOC mass is the sum of the following:

- Photoionization detector (PID) TVOC vapor mass
- Liquid TVOC mass
- Condensed non-aqueous phase liquid (NAPL) mass

Vapor Treatment System



- Vapor Treatment System Sampling Locations

Vapor Treatment System

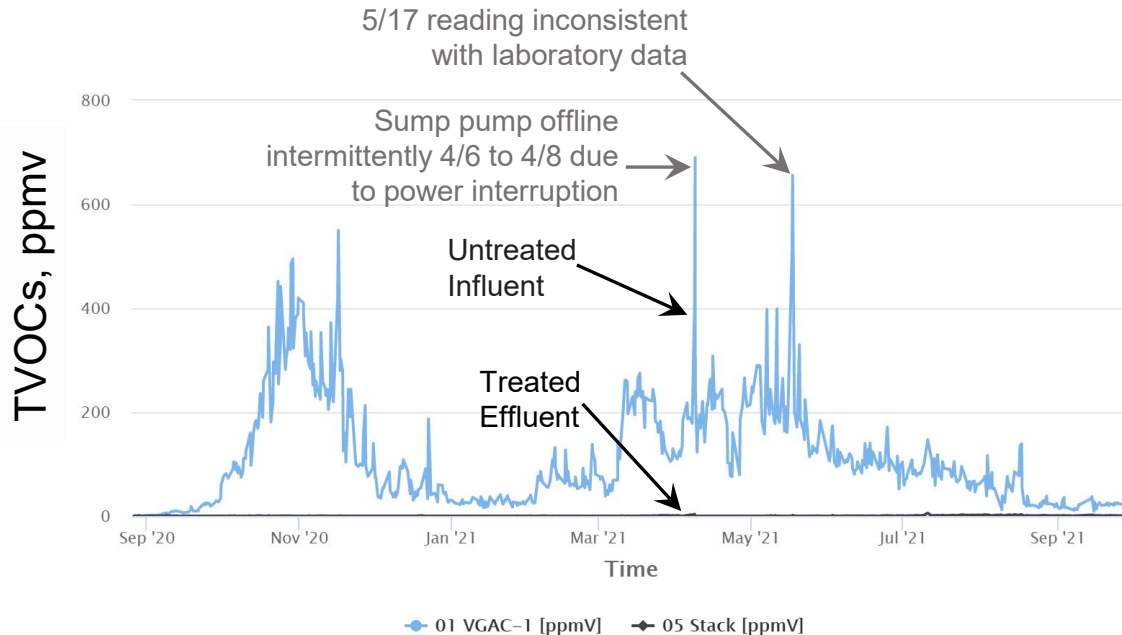
Air emissions meet treatment criteria in the RAWP:

- Stack concentrations less than 7.6 mg/m³ for TCE and 1.9 mg/m³ design limits for vinyl chloride throughout September.

Vapor treatment system analytical results for September provided in Table 1

Remedy Progress / Performance Monitoring September 2021

Vapor Treatment System (PID)



TVOC concentrations (PID) on September 30:

- Influent = 22 ppmv
- Effluent = 0.8 ppmv

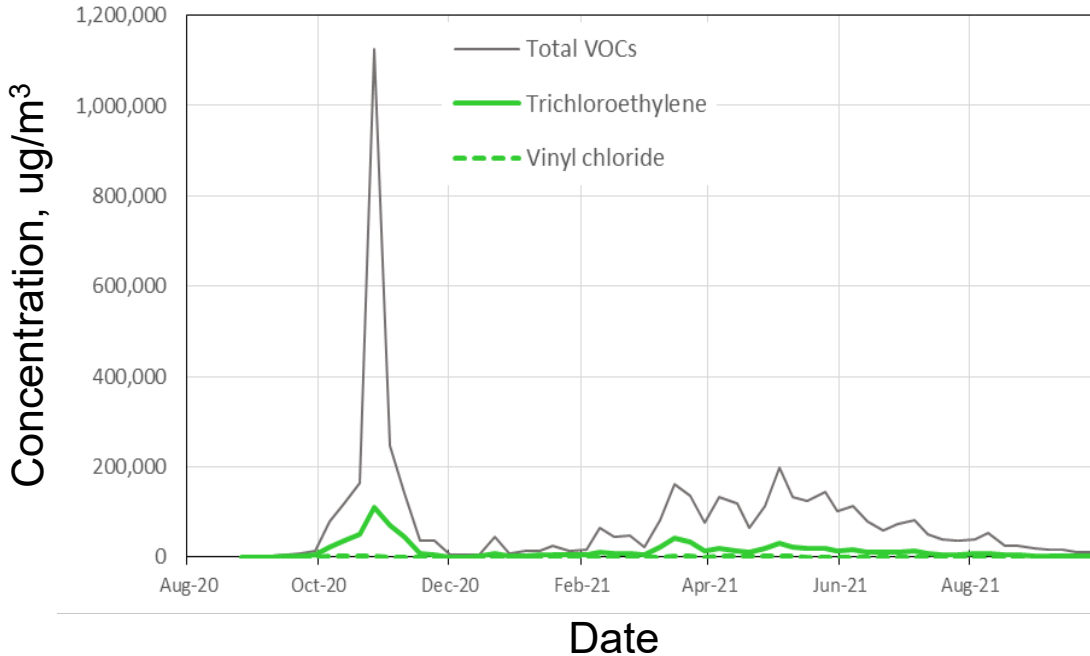
Maximum TVOC concentrations (PID) during September reporting period:

- Influent = 37 ppmv
- Effluent = 2.2 ppmv

Date

Vapor Treatment System Influent

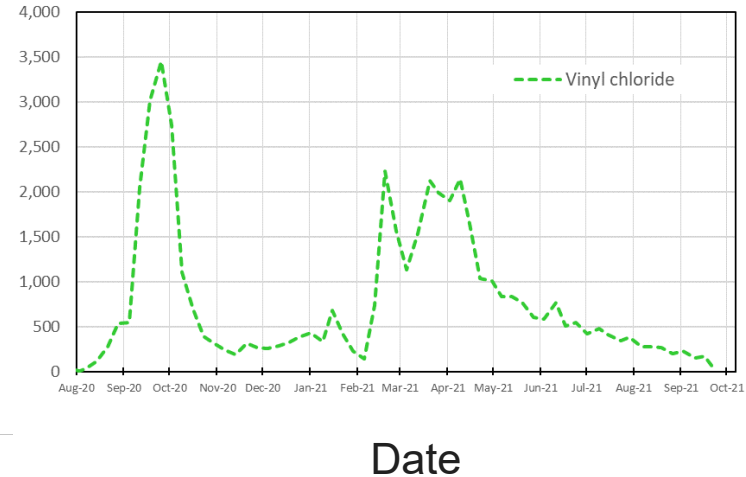
VGAC-1 (System Influent - Position 1)



Influent concentrations (Summa) on 9/27:

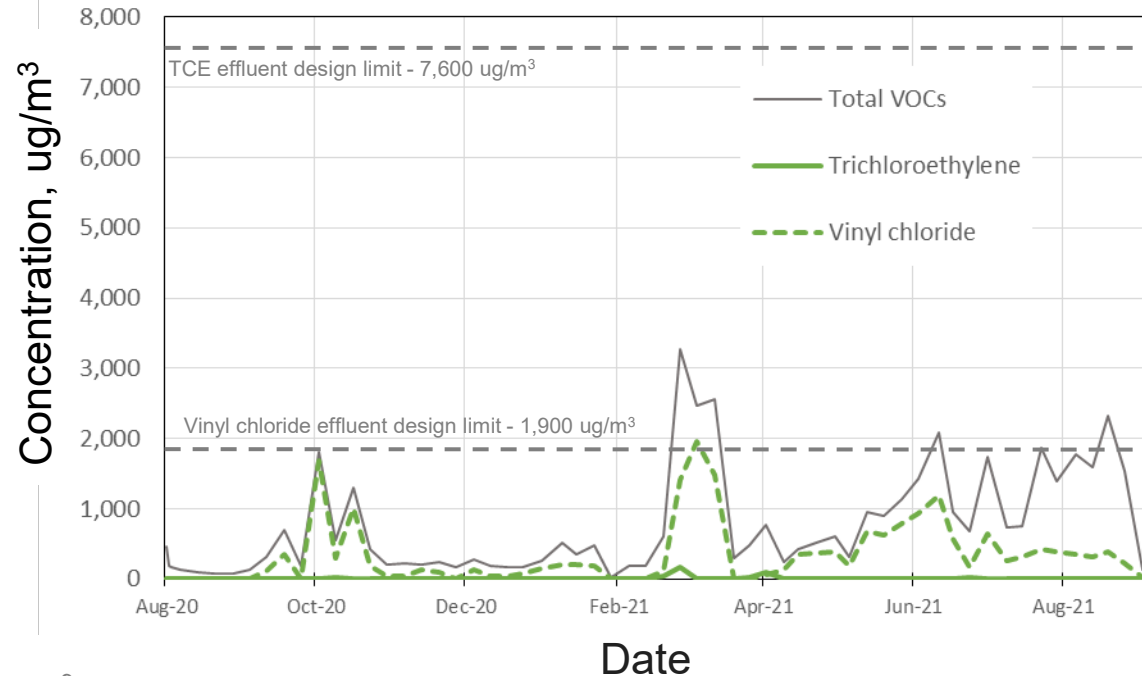
- TVOCs = 11,060 ug/m³
- TCE = 2,360 ug/m³
- Vinyl chloride = 228 ug/m³

VGAC-1 (System Influent - Position 1)



Vapor Treatment System Effluent

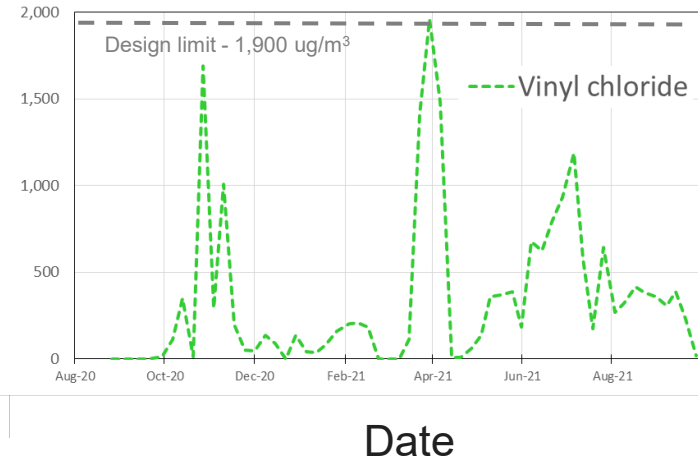
KMNO4-5 (System Effluent - Position 5)



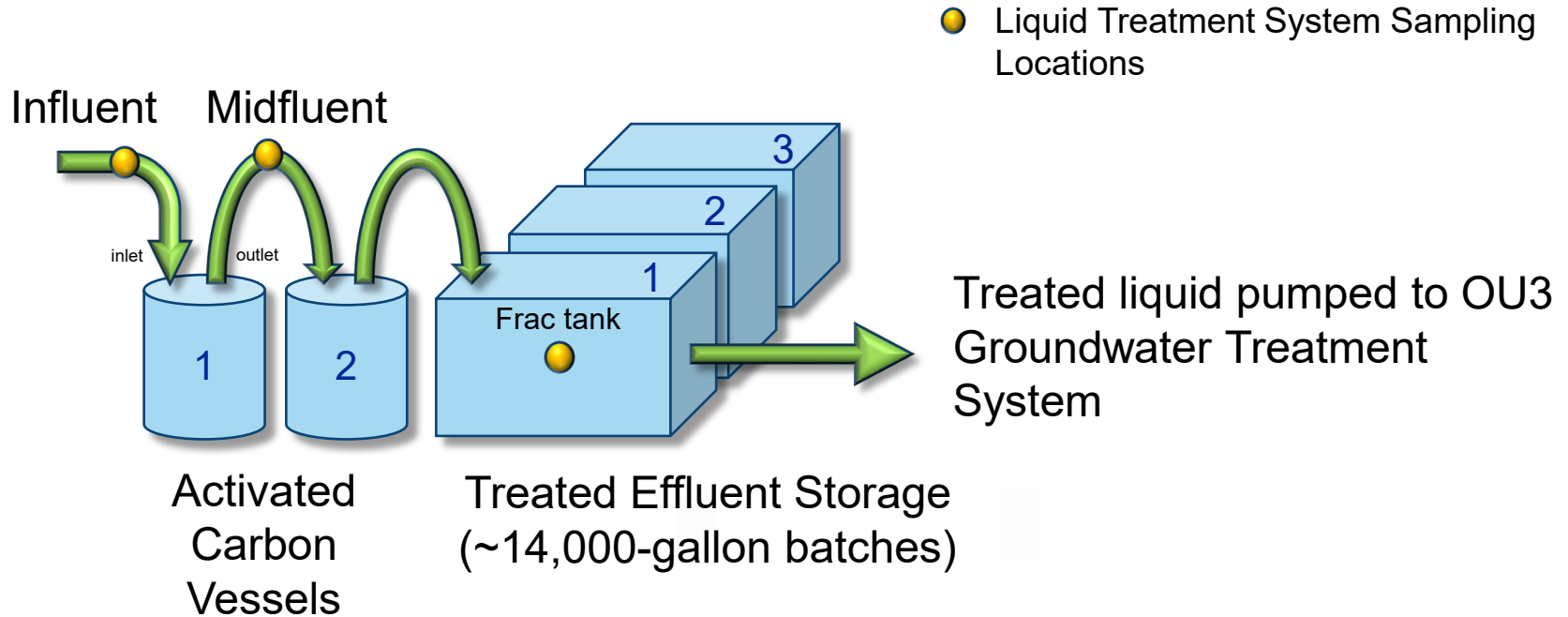
Effluent concentrations
(Summa) on 9/27:

- TVOCs = 134 $\mu\text{g}/\text{m}^3$
- TCE = 2.6 $\mu\text{g}/\text{m}^3$
- Vinyl chloride = 19 $\mu\text{g}/\text{m}^3$

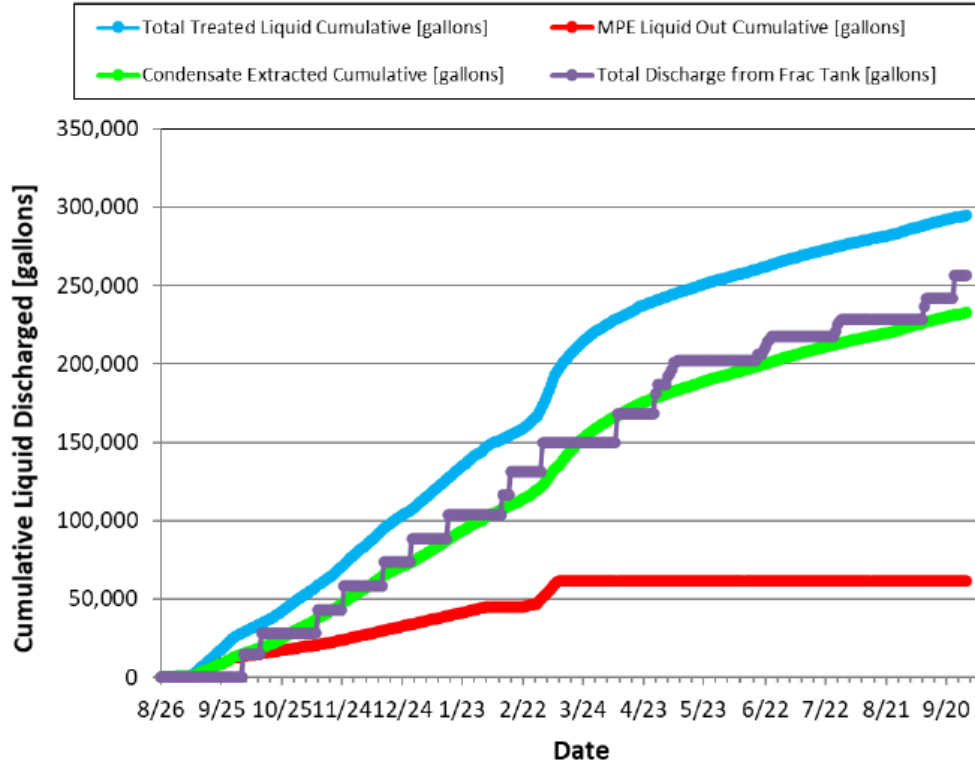
KMNO4-5 (System Effluent - Position 5)



Liquid Treatment System



Cumulative Liquid Produced



294,566 total gallons extracted and treated through 9/30

256,720 total gallons treated effluent discharged to OU3 groundwater treatment system through 9/30*

* As described in the discharge monitoring report for September 2021, the iron concentration in the OU3 groundwater treatment system effluent sample collected on September 9 was above the SPDES limit of 600 ug/L.

Liquid treatment system analytical results for September provided in Table 2

Ambient Air PID Monitoring September 2021

PID levels comply with Community Air Monitoring Plan (CAMP) criteria in the RAWP:

- PID readings recorded continuously at locations AMP-1 through 4
- Results emailed daily to the State and Town of Oyster Bay (Monday through Saturday)
- PID monitoring results did not exceed NYSDEC's CAMP action level (5 ppm TVOCs for a 15-minute average)*

* As described in daily CAMP monitoring emails, elevated PID readings were recorded on 9/1, 2, 8, 9, 11, 16, 20, 21, 24, and 25 at AMP-1 and/or AMP -3. These PID readings were the result of atmospheric conditions and/or instrument errors/faults and could not be confirmed by downwind station readings and/or hand-held PID units. Also, inspections did not identify any remedial equipment malfunctions or releases to ambient air.



Significant Activities

September 2021

Major equipment repairs and significant downtime:

None

Other significant activities:

- Began modifications to the OU3 SGCS on September 22 to treat ISTR vapors (per NYSDEC 9/9/21 approval).
- Installed pneumatic pumps to purge water from six shallow VEWs.
- Continued LNAPL gauging and removal in 8 VEWs.

Planned Significant Activities During Next Two Months

- Maintain vapor extraction system operation, monitoring, and maintenance in preparation for system shutdown.
- Continue modifications of the OU3 SGCS to treat ISTR vapors.
- Continue LNAPL gauging and removal in 8 VEWs.
- Continue purging water from shallow VEWs.
- Continue decommissioning of ISTR system.

Schedule

Activity	RAWP Schedule	Current Status
Remedial System Operation	Q3/20 – Q1/21	Q3/20 – Q4/21
Post-Treatment Confirmation Sampling	Q1/21	Complete
Remedy Cool-down	Q1/21-Q2-21	Q1/21 - Q1/22
Equipment Removal & Site Restoration	Q2/21	Q4/21

ISTR vapor extraction and treatment system continues to operate.

Pending RAWP Modifications

None

NORTHROP
GRUMMAN

The logo symbol consists of a thick horizontal line on the top right, a thick vertical line on the right side, and a thick horizontal line on the bottom right, forming an L-shaped corner.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring**

Compound (ug/m ³)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5
	Lab Sample ID: Date Sampled:	JD31076-1 9/7/2021	JD31076-2 9/7/2021	JD31076-3 9/7/2021
1,1,1-Trichloroethane	<	7.1	< 1.5	< 1.8
1,1-Dichloroethane		48.6	22	< 0.49
1,1-Dichloroethylene		25	97.9	< 0.67
1,2,4-Trimethylbenzene	<	6.4	< 1.3	< 1.6
1,2-Dibromoethane	<	5.5	< 1.1	< 1.4
1,3,5-Trimethylbenzene	<	6.4	< 1.3	< 1.7
1,3-Butadiene	<	4.0	< 0.82	< 1.0
1,4-Dioxane*	<	7.6	< 1.5	< 1.9
2,2,4-Trimethylpentane		40	< 0.79	< 1.0
2-Hexanone		28 J	< 1.2	< 1.5
4-Ethyltoluene	<	5.9	< 1.2	< 1.5
Acetone*		4,540	444	706
Benzene		13 J	< 0.30	< 0.38
Bromoform	<	16	< 3.1	< 3.8
Carbon disulfide		63.5	86.3	308
Carbon tetrachloride	<	5.9	< 1.2	< 1.5
Chloroethane	<	5.0	7.9	9.5
Chloroform	<	3.9	< 0.78	< 0.98
Chloromethane*		11 J	12	13
cis-1,2-Dichloroethylene		3,030	956	< 0.48
Cyclohexane	<	3.0	< 0.62	< 0.76
Dichlorodifluoromethane	<	3.3	< 0.64	< 0.84
Ethanol		128	258	102
Ethyl acetate	<	5.4	54.0	11
Ethylbenzene		104	< 0.52	< 0.65
Heptane		72.5	< 0.57	< 0.74
Hexane	<	1.5	< 0.30	< 0.39
Isopropyl alcohol*		82.8	7.1	5.7
m,p-Xylene		293	5.6 J	< 1.5
m-Dichlorobenzene	<	4.6	< 0.90	< 1.1
Methyl ethyl ketone		805	2.3 J	< 1.2
Methyl isobutyl ketone		24 J	< 1.2	< 1.5
Methylene chloride*	<	2.0	9.0	8.3
o-Dichlorobenzene	<	5.2	< 1.0	< 1.3
o-Xylene		95.1	< 0.61	< 0.74
Propylene*		115	97.6	128
Styrene	<	3.2	< 0.64	< 0.81
Tertiary butyl alcohol		58.2	6.1	< 0.42
Tetrachloroethylene		12	< 1.7	< 2.1
Tetrahydrofuran	<	5.9	< 1.2	< 1.5
Toluene		3,760	9.4	3.7 J
trans-1,2-Dichloroethylene		75.7	105	< 0.29
Trichloroethylene		3,220	2.7	< 1.0
Trichlorofluoromethane	<	6.2	< 1.2	< 1.6
Vinyl acetate	<	4.9	< 0.95	< 1.2
Vinyl chloride*		281	297	307
Xylenes (total)		388	5.6 J	< 0.74
TVOCs		16,920	2,480	1,602
TVOCs less poor adsorbers*		11,900	1,600	400

Footnotes:

ug/mg³ micrograms per cubic meter

* Compound is poorly adsorbed by activated carbon.

< Compound was not detected at or above the indicated value.

J Detected concentration is less than the quantitation limit.

TVOCs Total volatile organic compounds

Detections are highlighted.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring**

Compound ($\mu\text{g}/\text{m}^3$)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5
	Lab Sample ID: Date Sampled:	JD31467-1 9/13/2021	JD31467-2 9/13/2021	JD31467-3 9/13/2021
1,1,1-Trichloroethane	<	7.1	<	3.6
1,1-Dichloroethane		51.0	<	44.9
1,1-Dichloroethylene		25	<	139
1,2,4-Trimethylbenzene	<	6.4	<	3.2
1,2-Dibromoethane	<	5.5	<	2.8
1,3,5-Trimethylbenzene	<	6.4	<	3.3
1,3-Butadiene	<	4.0	<	2.0
1,4-Dioxane*	<	7.6	<	3.6
2,2,4-Trimethylpentane		40	<	2.1
2-Hexanone		31 J	<	3.0
4-Ethyltoluene	<	5.9	<	2.9
Acetone*		3,820	<	584
Benzene		12 J	<	0.77
Bromoform	<	16	<	7.8
Carbon disulfide		50.1	<	225
Carbon tetrachloride	<	5.9	<	3.0
Chloroethane	<	5.0	9.5 J	13
Chloroform	<	3.9	<	2.0
Chloromethane*		13 J	11	15
cis-1,2-Dichloroethylene		2,840	<	2,270
Cyclohexane	<	3.0	<	1.5
Dichlorodifluoromethane	<	3.3	<	1.6
Ethanol		102	<	334
Ethyl acetate		80.3	<	22
Ethylbenzene		109	<	1.3
Heptane		66.0	<	1.4
Hexane	<	1.5	<	0.74
Isopropyl alcohol*		62.9	<	3.2
m,p-Xylene		291	<	3.0
m-Dichlorobenzene	<	4.6	<	2.3
Methyl ethyl ketone		758	<	2.5
Methyl isobutyl ketone		30 J	<	3.0
Methylene chloride*	<	2.0	<	1.0
o-Dichlorobenzene	<	5.2	<	2.6
o-Xylene		89.0	<	1.5
Propylene*		114	<	122
Styrene	<	3.2	<	1.6
Tertiary butyl alcohol		54.3	<	0.85
Tetrachloroethylene		14	<	4.2
Tetrahydrofuran	<	5.9	<	2.9
Toluene		3,670	<	1.1
trans-1,2-Dichloroethylene		73.0	<	192
Trichloroethylene		3,310	<	2.0
Trichlorofluoromethane	<	6.2	<	3.1
Vinyl acetate		117	<	2.4
Vinyl chloride*		271	<	345
Xylenes (total)		380	<	1.5
TVOCs		16,090	<	4,300
TVOCs less poor adsorbers*		11,800	<	3,200

Footnotes:

$\mu\text{g}/\text{m}^3$ micrograms per cubic meter

* Compound is poorly adsorbed by activated carbon.

< Compound was not detected at or above the indicated value.

J Detected concentration is less than the quantitation limit.

TVOCs Total volatile organic compounds

Detections are highlighted.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring**

Compound ($\mu\text{g}/\text{m}^3$)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5
	Lab Sample ID: Date Sampled:	JD31873-1 9/20/2021	JD31873-2 9/20/2021	JD31873-3 9/20/2021
1,1,1-Trichloroethane	<	3.6	< 1.8	< 0.71
1,1-Dichloroethane		38	56.7	< 0.19
1,1-Dichloroethylene		19	109	< 0.27
1,2,4-Trimethylbenzene		18 J	< 1.6	< 0.64
1,2-Dibromoethane	<	2.8	< 1.4	< 0.55
1,3,5-Trimethylbenzene	<	3.3	< 1.7	< 0.64
1,3-Butadiene	<	2.0	< 1.0	< 0.40
1,4-Dioxane*	<	3.6	< 1.9	< 0.76
2,2,4-Trimethylpentane		28	< 1.0	< 0.41
2-Hexanone		34	< 1.5	< 0.61
4-Ethyltoluene	<	2.9	< 1.5	< 0.59
Acetone*		2,000	682	827
Benzene		9.6 J	< 0.38	< 0.15
Bromoform	<	7.8	< 3.8	< 1.6
Carbon disulfide		36.1	238	254
Carbon tetrachloride	<	3.0	< 1.5	< 0.59
Chloroethane	<	2.6	6.3	6.9
Chloroform		8.3 J	< 0.98	< 0.39
Chloromethane*		6.4 J	9.9	9.1
cis-1,2-Dichloroethylene		2,020	1,800	5.9
Cyclohexane	<	1.5	< 0.76	< 0.30
Dichlorodifluoromethane	<	1.6	< 0.84	2.3 J
Ethanol		85.9	228	79.5
Ethyl acetate	<	2.7	< 1.4	2.5 J
Ethylbenzene		75.1	< 0.65	< 0.26
Heptane		51.6	< 0.74	< 0.29
Hexane	<	0.74	< 0.39	< 0.15
Isopropyl alcohol*		56.3	< 1.6	< 0.64
m,p-Xylene		215	< 1.5	2.2 J
m-Dichlorobenzene	<	2.3	< 1.1	< 0.46
Methyl ethyl ketone		584	< 1.2	2.3 J
Methyl isobutyl ketone		20	< 1.5	< 0.57
Methylene chloride*		16	< 0.52	11
o-Dichlorobenzene	<	2.6	< 1.3	< 0.52
o-Xylene		69.1	< 0.74	< 0.30
Propylene*		88.0	103	95.2
Styrene	<	1.6	< 0.81	< 0.32
Tertiary butyl alcohol		37.6	< 0.42	1.4 J
Tetrachloroethylene		74.6	4.0	4.0
Tetrahydrofuran	<	2.9	< 1.5	< 0.59
Toluene		2,000	5.3 J	3.1
trans-1,2-Dichloroethylene		57.9	222	3.1 J
Trichloroethylene		2,410	5.9	< 0.41
Trichlorofluoromethane	<	3.1	< 1.6	< 0.62
Vinyl acetate	<	2.4	< 1.2	< 0.49
Vinyl chloride*		204	258	230
Xylenes (total)		285	< 0.74	2.2 J
TVOCs		10,260	3,730	1,540
TVOCs less poor adsorbers*		7,900	2,700	400

Footnotes:

$\mu\text{g}/\text{m}^3$ micrograms per cubic meter

* Compound is poorly adsorbed by activated carbon.

< Compound was not detected at or above the indicated value.

J Detected concentration is less than the quantitation limit.

TVOCs Total volatile organic compounds

Detections are highlighted.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring**

Compound (ug/m ³)	Sample ID: Lab Sample ID: Date Sampled:	VGAC-1 JD32304-1 9/27/2021	VGAC-3 JD32304-2 9/27/2021	KMNO4-5 JD32304-3 9/27/2021	DUPLICATE JD32304-4 9/27/2021			
1,1,1-Trichloroethane	<	7.1	<	7.1	<	0.71	<	1.8
1,1-Dichloroethane		48.2		70.0	<	0.19	<	0.49
1,1-Dichloroethylene		22		82.1	<	0.27	<	0.67
1,2,4-Trimethylbenzene	<	6.4	<	6.4	<	0.64	<	1.6
1,2-Dibromoethane	<	5.5	<	5.5	<	0.55	<	1.4
1,3,5-Trimethylbenzene	<	6.4	<	6.4	<	0.64	<	1.7
1,3-Butadiene	<	4.0	<	4.0	<	0.40	<	1.0
1,4-Dioxane*	<	7.6	<	7.6	<	0.76	<	1.9
2,2,4-Trimethylpentane		29 J	<	4.1	<	0.41	<	1.0
2-Hexanone	<	6.1	<	6.1	<	0.61	<	1.5
4-Ethyltoluene	<	5.9	<	5.9	<	0.59	<	1.5
Acetone*		3,160		2,130		51.8		539
Benzene	<	1.5	<	1.5	<	0.15	<	0.38
Bromoform	<	16	<	16	<	1.6	<	3.8
Carbon disulfide		38.3		187		11		152
Carbon tetrachloride	<	5.9	<	5.9	<	0.59	<	1.5
Chloroethane	<	5.0	<	5.0	<	0.50		4.0 J
Chloroform	<	3.9	<	3.9	<	0.39	<	0.98
Chloromethane*		8.5 J		9.5 J		1.6 J		6.8
cis-1,2-Dichloroethylene		2,230		3,080		4.8	<	0.48
Cyclohexane	<	3.0	<	3.0	<	0.30	<	0.76
Dichlorodifluoromethane	<	3.3	<	3.3		2.5 J	<	0.84
Ethanol		105		151		15		84.4
Ethyl acetate	<	5.4	<	5.4		3.6		6.5 J
Ethylbenzene		49.5	<	2.6	<	0.26	<	0.65
Heptane		45.1	<	2.9	<	0.29	<	0.74
Hexane		13 J	<	1.5	<	0.15	<	0.39
Isopropyl alcohol*		70.1	<	6.4		2.4	<	1.6
m,p-Xylene		128	<	6.1		1.9 J	<	1.5
m-Dichlorobenzene	<	4.6	<	4.6	<	0.46	<	1.1
Methyl ethyl ketone		528	<	5.0		1.7 J	<	1.2
Methyl isobutyl ketone		16 J	<	5.7	<	0.57	<	1.5
Methylene chloride*	<	2.0		14 J	<	0.20		6.6 J
o-Dichlorobenzene	<	5.2	<	5.2	<	0.52	<	1.3
o-Xylene		38	<	3.0	<	0.30	<	0.74
Propylene*		105		110		11		81.3
Styrene	<	3.2	<	3.2	<	0.32	<	0.81
Tertiary butyl alcohol		44.6	<	1.7	<	0.17	<	0.42
Tetrachloroethylene	<	8.1	<	8.1	<	0.81	<	2.1
Tetrahydrofuran	<	5.9	<	5.9	<	0.59	<	1.5
Toluene		1,740	<	2.2		4.9	<	0.53
trans-1,2-Dichloroethylene		59.5		269	<	0.11	<	0.29
Trichloroethylene		2,360	<	4.1		2.6	<	1.0
Trichlorofluoromethane	<	6.2	<	6.2	<	0.62	<	1.6
Vinyl acetate	<	4.9	<	4.9	<	0.49	<	1.2
Vinyl chloride*		228		274		19		166
Xylenes (total)		165	<	3.0		1.9 J	<	0.74
TVOCs		11,060		6,380		133.8		1,047
TVOCs less poor adsorbers*		7,500		3,800		0		200

Footnotes:

ug/mg³ micrograms per cubic meter

* Compound is poorly adsorbed by activated carbon.

< Compound was not detected at or above the indicated value.

J Detected concentration is less than the quantitation limit.

TVOCs Total volatile organic compounds

Detections are highlighted.

Table 2. Liquid Treatment System Sampling Results

Analyte	TOGS 111 Effluent Limitations (GA)	SPDES Permit Equivalent Daily Maximum Discharge Limitations	Sample ID:	FRAC3-A191-20210907	LGAC-MID-20210907	LGAC-INF-20210907	OU3 AIR STRIPPER FINAL EFF-20210909
			Lab Sample ID:	JD31073-1 / 1A	JD31073-2 / 2A	JD31073-3 / 3A	JD31220-1
			Date Sampled:	9/7/2021	9/7/2021	9/7/2021	9/9/2021
Volatile Organic Compounds (ug/L, detections only):							
1,2,3-Trichlorobenzene	5			0.72 J	< 0.50	< 0.50	-
1,2,4-Trichlorobenzene				2.2	< 0.50	< 0.50	-
1,2-Dichlorobenzene				3.5	< 0.53	< 0.53	-
1,3-Dichlorobenzene				1.5	< 0.54	< 0.54	-
1,4-Dichlorobenzene				0.95 J	< 0.51	< 0.51	-
2-Butanone (MEK)	50			< 6.9	< 6.9	203	-
2-Hexanone	50			< 2.0	< 2.0	25.1	-
4-Methyl-2-pentanone (MIBK)	--			< 1.9	< 1.9	5.0	-
Acetone*	50			< 3.1	8.3 J	1,010	-
cis-1,2-Dichloroethene	5	5		< 0.51	< 0.51	2.5	-
m,p-Xylene	5			< 0.78	< 0.78	2.2	-
o-Xylene	5			< 0.59	< 0.59	1.6	-
Toluene	5			< 0.53	< 0.53	5.7	-
Trichloroethene	5	5		< 0.53	< 0.53	0.94 J	-
Xylene (total)	5			< 0.59	< 0.59	3.8	-
TVOCs	--			8.9	8.3	1,256	-
TVOCs less poor adsorbers*	--			8.9	0	246	-
Semivolatile Organic Compounds (ug/L, detections only):							
1,4-Dioxane	--			< 0.63	< 0.63	2.7	-
2,4-Dimethylphenol	1			< 2.3	< 2.3	16.0	-
2-Methylphenol	2**			< 0.85	< 0.85	9.1	-
3&4-Methylphenol	2**			< 0.85	< 0.84	24.7	-
Acetophenone	--			< 0.20	< 0.20	45.2	-
Benzo(a)anthracene	0.002			< 0.20	< 0.19	0.22 J	-
Chrysene	0.002			< 0.17	< 0.17	0.47 J	-
Dimethyl phthalate	50			< 0.21	< 0.21	2.3	-
Fluoranthene	50			< 0.16	< 0.16	0.93 J	-
Phenanthrene	50			< 0.17	< 0.17	2.0	-
Phenol	1			< 0.38	< 0.37	40.6	-
Pyrene	50			< 0.21	< 0.21	0.78 J	-
Semivolatile Organic Compounds (SIM) (ug/L):							
1,4-Dioxane	--			0.192	< 0.048	3.42	-
Polychlorinated Biphenyls (ug/L):							
Aroclor 1016				< 0.15	< 0.15	< 0.15	-
Aroclor 1221				< 0.32	< 0.31	< 0.32	-
Aroclor 1232				< 0.20	< 0.19	< 0.20	-
Aroclor 1242				< 0.18	< 0.17	< 0.18	-
Aroclor 1248	0.09			< 0.097	< 0.093	3.3	-
Aroclor 1254	0.09			< 0.32	< 0.31	2.4	-
Aroclor 1260				< 0.12	< 0.11	< 0.12	-
Aroclor 1262				< 0.15	< 0.14	< 0.15	-
Aroclor 1268				< 0.13	< 0.13	< 0.13	-
Metals (ug/L):							
Cadmium				< 3.0	< 3.0	< 3.0	-
Chromium				< 10	< 10	< 10	-
Iron	300	600		535	< 100	63,600	2,350
Manganese	300	600		156	107	288	57.5
Sum of total iron and manganese		1000		691	207	63,888	
Mercury				< 0.20	< 0.20	0.20	-
General Chemistry (mg/L):							
Nitrogen, Nitrate	10	10		< 0.11	< 0.11	0.36	-
Nitrogen, Nitrate + Nitrite	10			< 0.10	< 0.10	0.36	-
Nitrogen, Nitrite	1			< 0.010	< 0.010	< 0.010	-
Nitrogen, Total Kjeldahl	-			0.89	0.52	0.73	-

Footnotes:

- ug/L micrograms per liter
- mg/L milligrams per liter
- TOGS 111 Technical and Operational Guidance Series 1.1.1., Groundwater Effluent Limitations, Class GA, New York State.
- * Poorly adsorbed on activated carbon.
- ** Applies to sum of phenolic compounds.
- *** Generated by Method 6010D; all other metals results generated by Method 200.7.
- < Analyte was not detected at or above the indicated value.
- J Detected concentration is less than the laboratory quantitation limit.
- TVOCs Total volatile organic compounds
- Detections are highlighted.