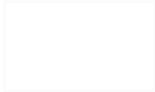


ISTR Operations Monthly Progress Report

Reporting Period: December 2020



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

NYSDEC Site No. 130003A

January 20, 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

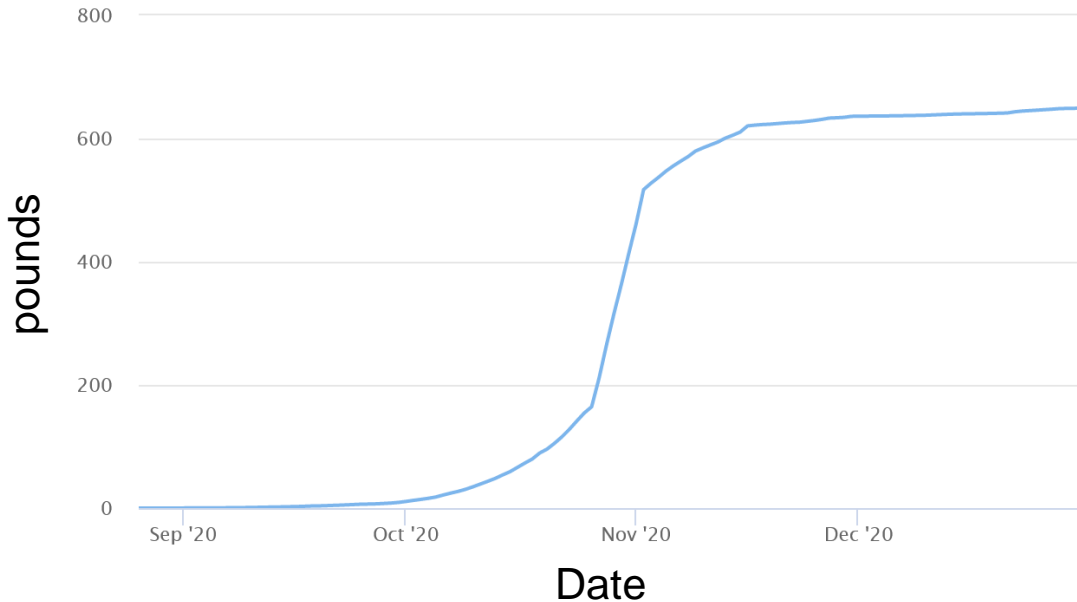
ISTR Operations Summary

- Air emissions comply with effluent concentration limits specified in the RAWP
- No exceedances of NYSDEC Community Air Monitoring Plan (CAMP) PID action levels
- No validated ambient air monitoring results above target screening levels
- Liquid discharges comply with criteria specified in the RAWP with one minor exception on 12/29 (see slide 13)

Reporting Period: December 2020

System Startup	8/26/2020
Days of Operation Since Startup	127
Cumulative Mass Removed, lbs	649

Cumulative TVOC Mass Removed

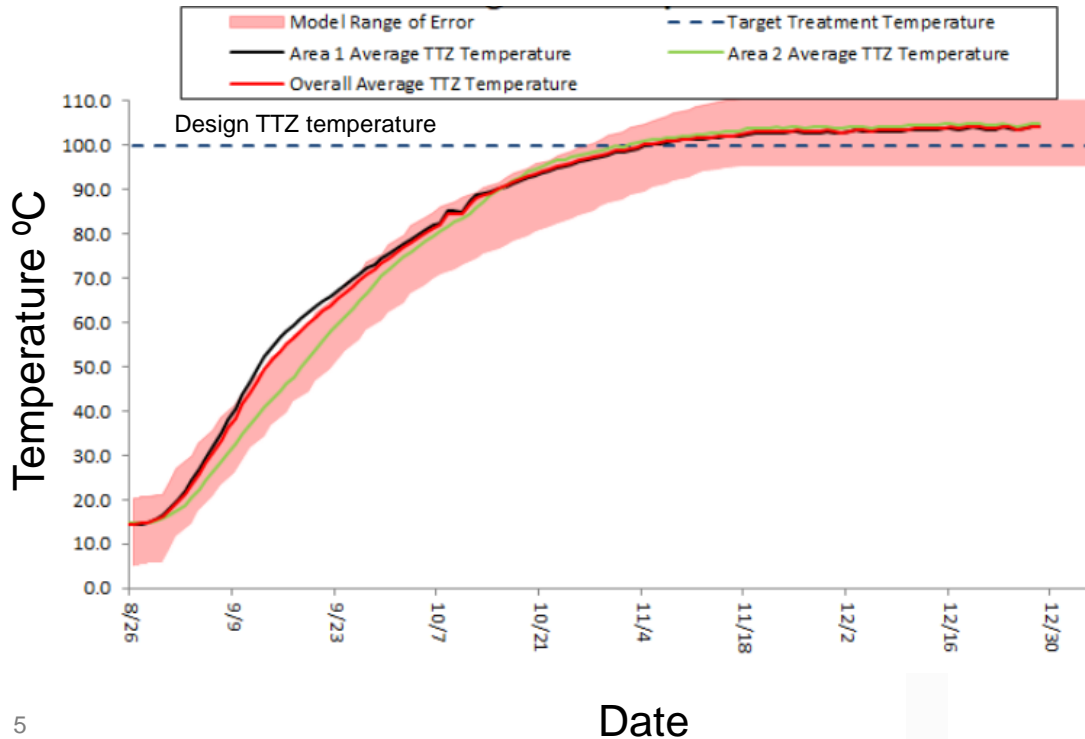


Estimated 649 lbs of total volatile organic compounds (TVOCs) removed through 12/29

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 (NAPL accumulated through 12/31 not included in the estimate, pending speciation)

Cumulative Temperature Progression

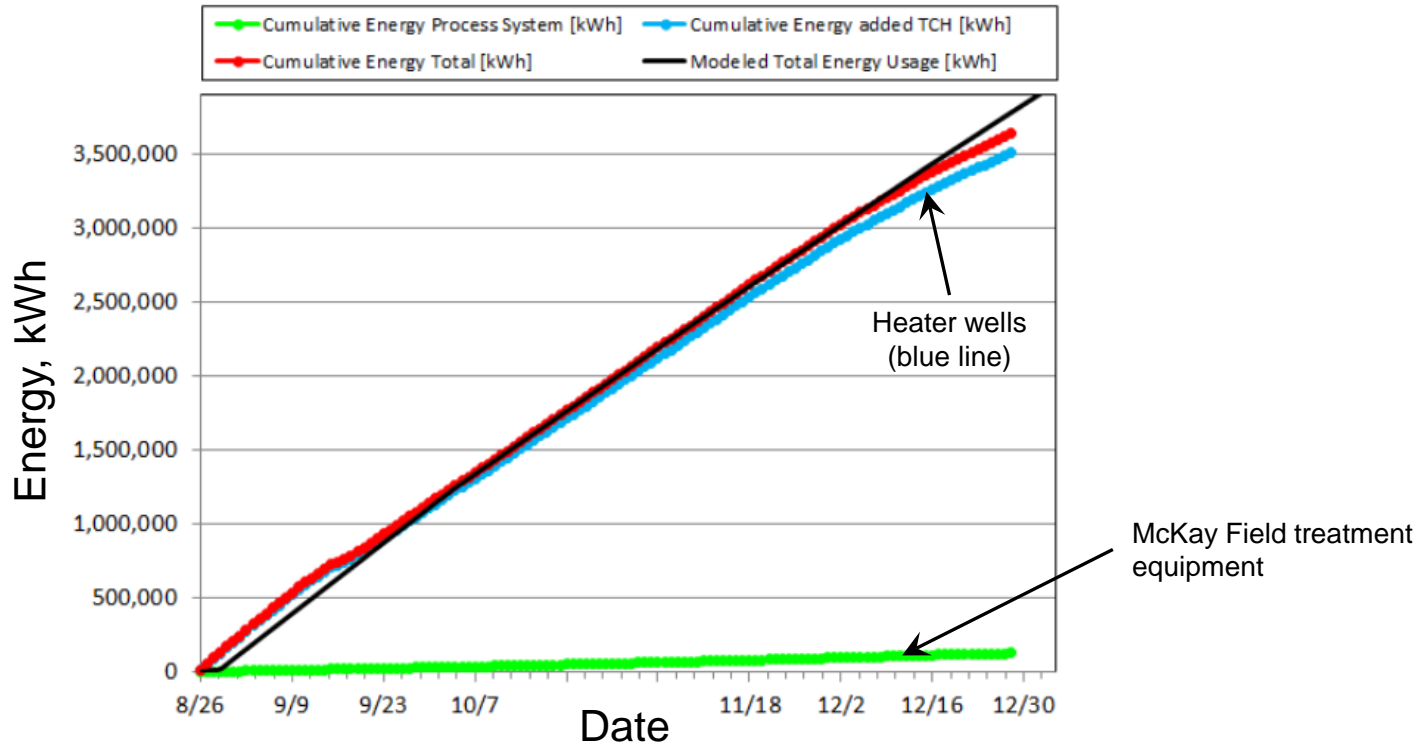


Target treatment zone (TTZ) design temperature is 100°C

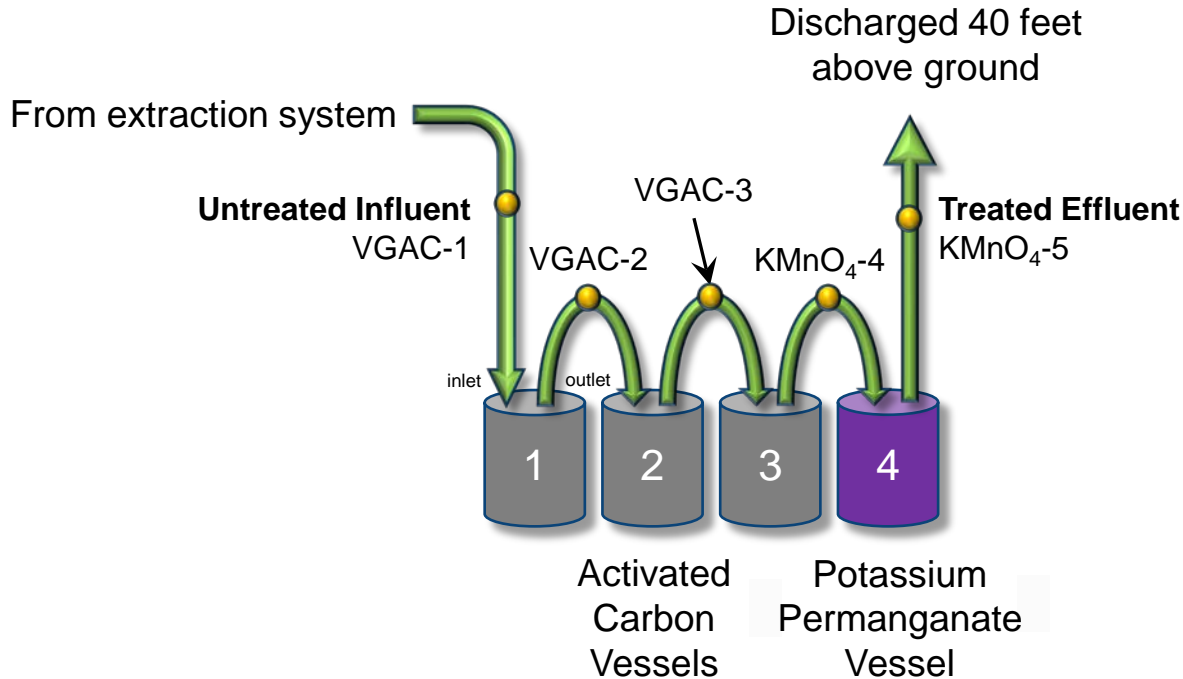
Days of treatment at 100°C through December 31:

- Area 1 = 57 days
- Area 2 = 59 days

Energy Use



Vapor Treatment System



● Vapor Treatment System Sampling Locations

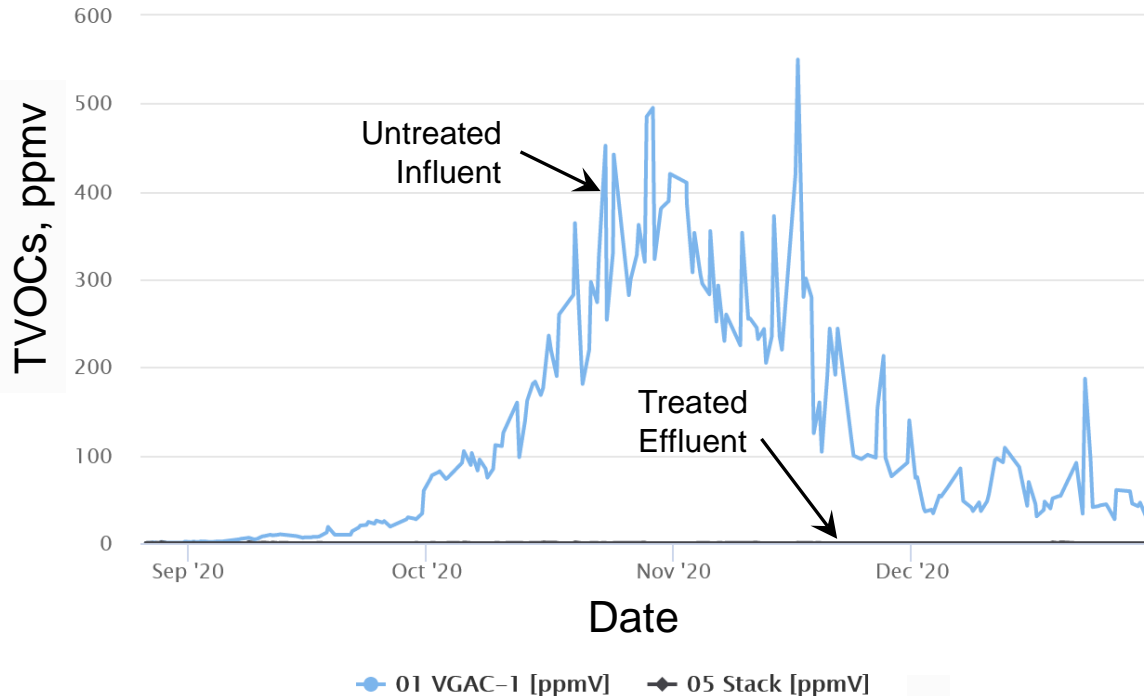
Vapor Treatment System

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 December.
- TCE and vinyl chloride concentrations in ambient air samples collected in December were all below target screening levels.

Routine operations analytical results provided in Table 1

Vapor Treatment System (PID)



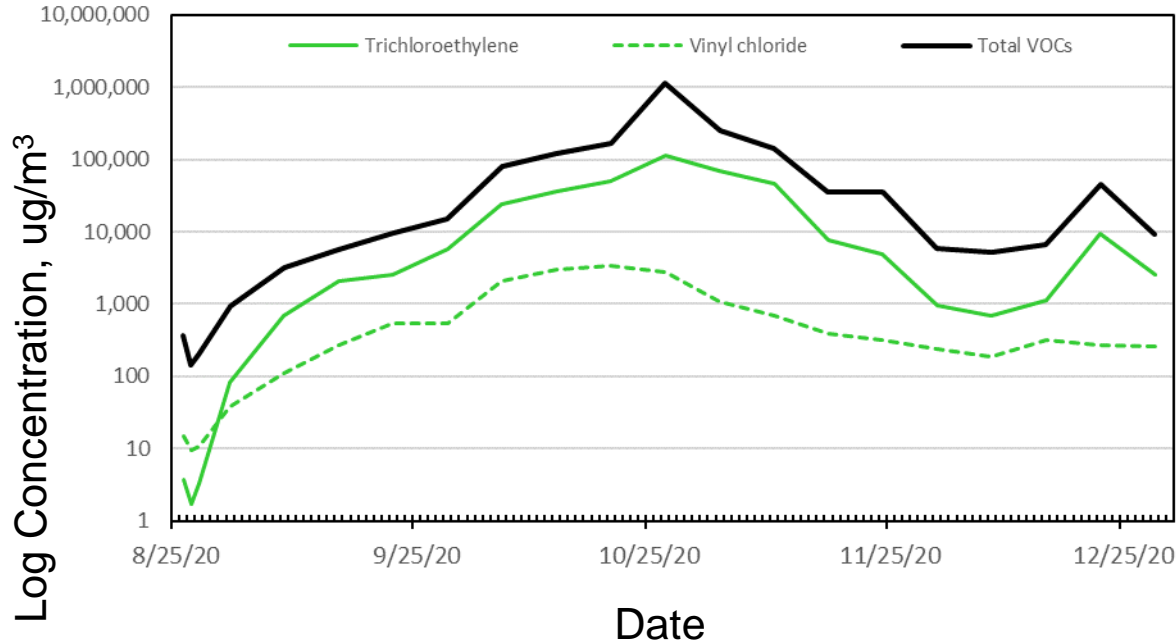
TVOC concentrations (PID) on December 31:

- Influent = 31 ppmv
- Effluent = 0.1 ppmv

Max TVOC concentrations (PID) during reporting period:

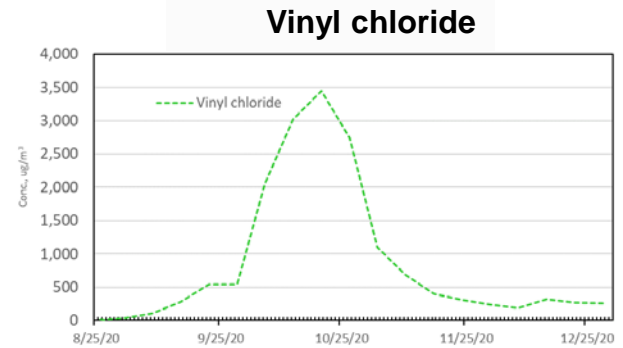
- Influent = 187 ppmv
- Effluent = max 0.9 ppmv

Vapor Treatment System Influent

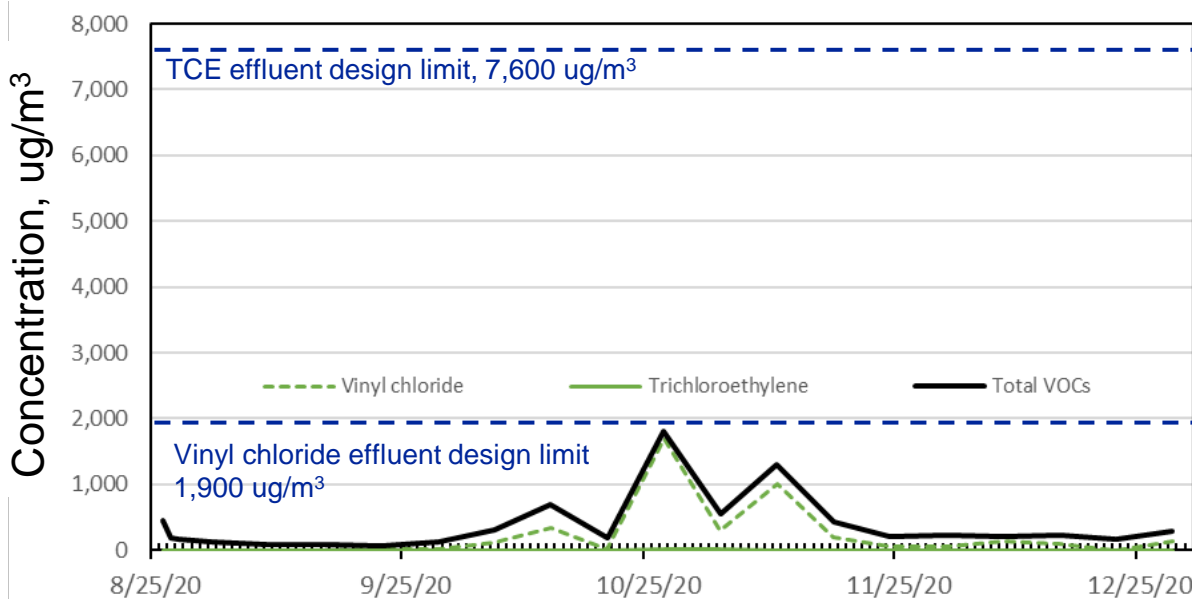


Influent concentrations (Summa) on 12/29:

- TVOCs = 9,200 $\mu\text{g}/\text{m}^3$
- TCE = 2,500 $\mu\text{g}/\text{m}^3$
- Vinyl chloride = 258 $\mu\text{g}/\text{m}^3$

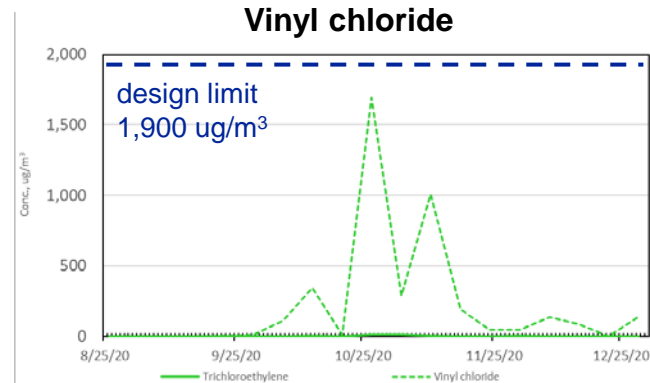


Vapor Treatment System Effluent



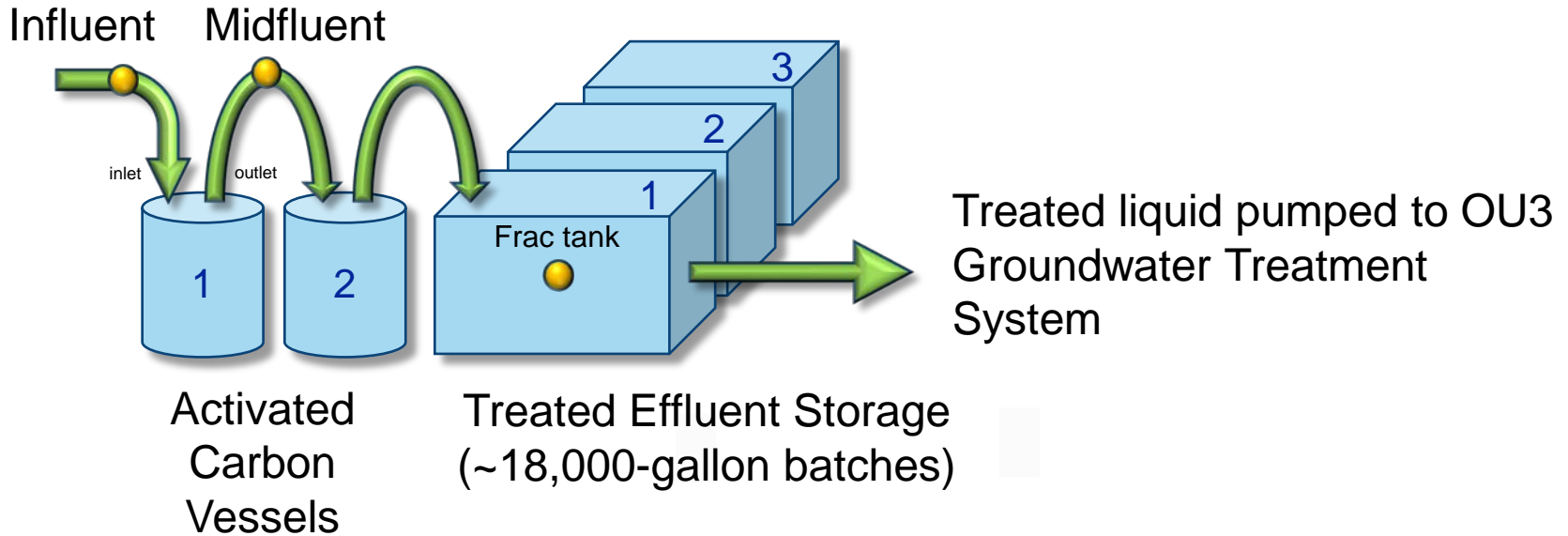
Effluent concentrations (Summa) on 12/29:

- TVOCs = 282 $\mu\text{g}/\text{m}^3$
- TCE = <1 $\mu\text{g}/\text{m}^3$
- Vinyl chloride = 138 $\mu\text{g}/\text{m}^3$

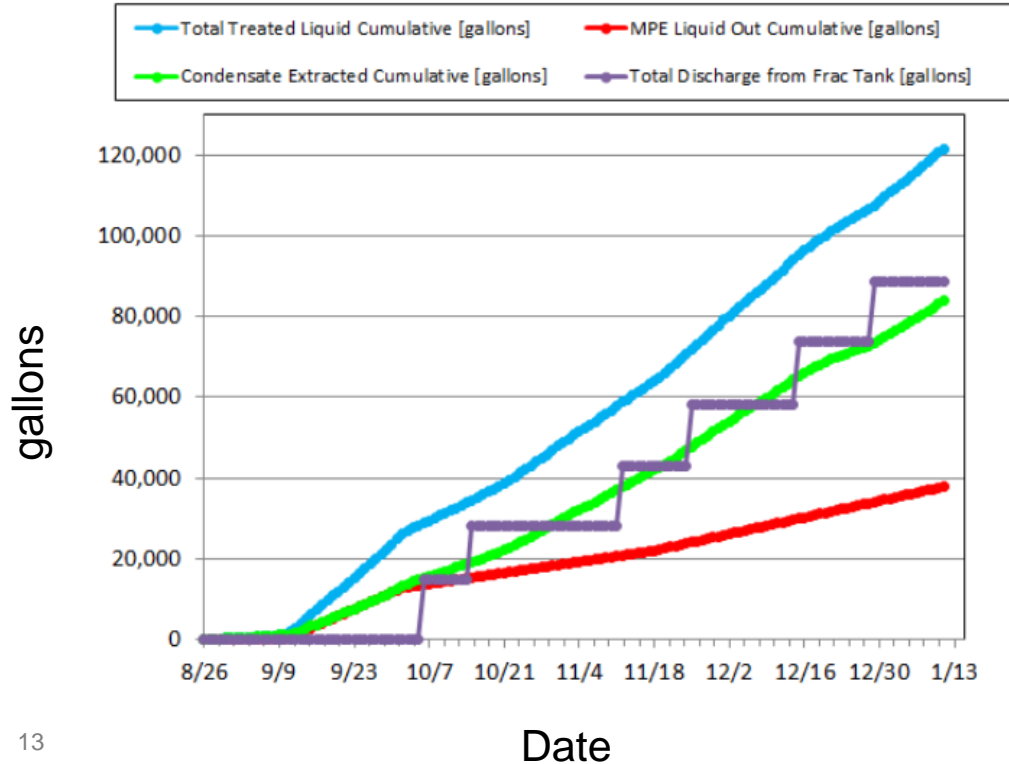


Liquid Treatment System

● Liquid Treatment System Sampling Locations



Cumulative Liquid Produced



88,556 gallons treated water discharged to OU3 groundwater treatment system

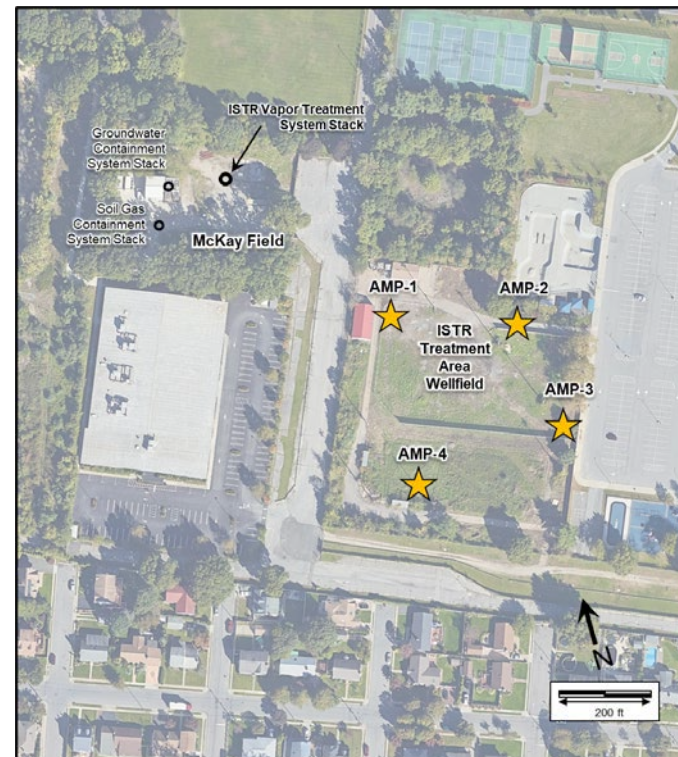
- Frac tank 1 - sampled 12/2, discharged 12/15
- Frac tank 2 - sampled 12/15, discharged 12/29 (during tank discharge, the iron concentration observed in the OU3 effluent was slightly above the SPDES equivalency limit, which will be addressed in the next monthly SPDES discharge monitoring report)

Analytical results provided in Table 2

Ambient Air PID Monitoring

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

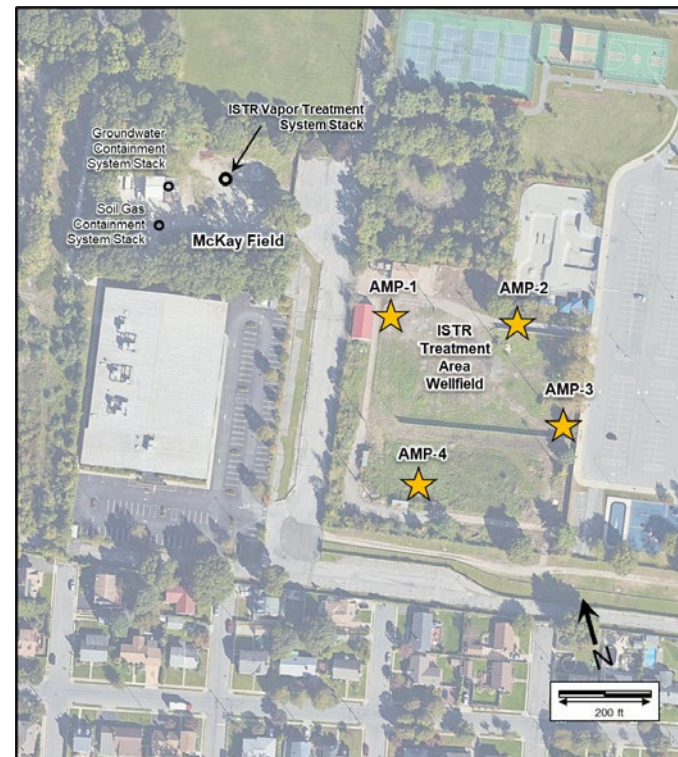
- PID readings recorded continuously at locations AMP-1 through 4
- Results emailed daily to the State and Town of Oyster Bay (Monday through Saturday)
- PID monitoring results did not exceed NYSDEC's CAMP action level (5 ppm TVOCs for a 15-minute average)



Ambient Air Summa Canister Monitoring

Summa canister levels comply with ambient air criteria in the RAWP:

- Summa canister samples collected 12/1, 12/7, 12/12, 12/18, 12/23, and 12/29
- Results emailed to the State and Town of Oyster Bay
- Summa canister validated results for compounds of interest (COIs) lower than target screening levels in the CAMP
- Summa canister validated results for non-COIs also lower than target screening levels calculated using CAMP-specified protocol



Analytical results provided in Table 3

Significant Activities

Major equipment repairs and significant downtime:

- Heater well H-149 malfunctioned on 11/23. Replacement heater drilled 12/19 and H-149 brought back online 1/4

Other significant Activities:

- Carbon changed out in all 3 vapor-phase carbon vessels and the primary liquid-phase carbon 12/21

Planned Significant Activities During Next Two Months

Continue routine system operations, monitoring, and maintenance

Evaluate ISTR performance indicators and plan confirmation sampling event

Schedule

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

No significant delays or corrective actions required

No schedule modifications anticipated

Pending RAWP Modifications

None

Pending RAWP Clarifications

Switch type of flow controller for ambient air monitoring

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - December 2020**

Compound (ug/m ³)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5	Percent Removed
	Lab Sample ID: Date Sampled:	JD16935-1 12/1/2020	JD16935-2 12/1/2020	JD16935-3 12/1/2020	
1,1,1-Trichloroethane	<	4.6	< 0.71	< 0.71	
1,1-Dichloroethane	<	1.2	< 0.19	< 0.19	
1,1-Dichloroethylene		34	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		35	< 0.64	< 0.64	
1,3,5-Trimethylbenzene		17 J	< 0.64	< 0.64	
1,4-Dioxane*	<	4.7	< 0.76	< 0.76	
2,2,4-Trimethylpentane		24	< 0.41	< 0.41	
2-Hexanone	<	0.93	< 0.15	< 0.15	
4-Ethyltoluene	<	3.7	< 0.59	< 0.59	
Acetone*		691	24.7	35.2	
Benzene		113	< 0.15	< 0.15	
Bromoform	<	9.9	< 1.6	57	
Carbon disulfide		19	< 0.29	< 0.29	
Carbon tetrachloride	<	3.8	< 0.59	< 0.59	
Chloroethane	<	3.2	1.6 J	< 0.50	
Chloroform	<	2.5	< 0.39	< 0.39	
Chloromethane*		21.1	21.3	24.4	
cis-1,2-Dichloroethylene		1,780	< 0.19	1.8 J	
Cyclohexane	<	1.9	< 0.30	< 0.30	
Dichlorodifluoromethane	<	2.1	2.6 J	2.7 J	
Ethanol		43.3	18	22.4	
Ethyl acetate	<	3.5	< 0.54	< 0.54	
Ethylbenzene		62.1	< 0.26	< 0.26	
Heptane		39	< 0.29	< 0.29	
Hexane		19	< 0.15	< 0.15	
Isopropyl alcohol*		16	4.2	11	
m,p-Xylene		219	1.7 J	1.9 J	
m-Dichlorobenzene	<	2.9	< 0.46	< 0.46	
Methyl ethyl ketone		56.3	2.0 J	3.2	
Methyl isobutyl ketone	<	3.8	< 0.57	< 0.57	
Methylene chloride*	<	1.3	6.3	< 0.20	
o-Xylene		83.8	< 0.30	< 0.30	
Propylene*		447	417	< 0.11	
Styrene	<	2.0	< 0.32	< 0.32	
Tertiary butyl alcohol		15 J	3.6	4.2	
Tetrachloroethylene	<	5.4	< 0.81	< 0.81	
Tetrahydrofuran	<	3.8	2.9	4.4	
Toluene		886	2.3 J	3.0 J	
trans-1,2-Dichloroethylene		92.4	< 0.11	< 0.11	
Trichloroethylene		962	0.91	2.3	100%
Trichlorofluoromethane	<	4.0	< 0.62	< 0.62	
Vinyl acetate	<	3.1	< 0.49	< 0.49	
Vinyl chloride*		239	565	48.6	
Xylenes (total)		302	1.7 J	1.9 J	
TVOCs		5,913	1,074	222	

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 **bolded**.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - December 2020**

Compound (ug/m ³)	Sample ID: Lab Sample ID: Date Sampled:	VGAC-1 JD17385-1 12/8/2020	VGAC-3 JD17385-2 12/8/2020	KMNO4-5 JD17385-3 12/8/2020	DUPLICATE JD17385-4 12/8/2020	Percent Removed
1,1,1-Trichloroethane	<	1.8	< 0.71	< 0.71	< 0.71	
1,1-Dichloroethane	<	0.49	< 0.19	< 0.19	< 0.19	
1,1-Dichloroethylene		33	< 0.27	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		59.5	< 0.64	< 0.64	< 0.64	
1,3,5-Trimethylbenzene		31	< 0.64	< 0.64	< 0.64	
1,4-Dioxane*	<	1.9	< 0.76	< 0.76	< 0.76	
2,2,4-Trimethylpentane		19	< 0.41	< 0.41	< 0.41	
2-Hexanone	<	1.5	< 0.61	< 0.61	3.3	
4-Ethyltoluene		12	< 0.59	< 0.59	< 0.59	
Acetone*		651	64.1	38.2	41.8	
Benzene		43.8	0.58 J	< 0.15	< 0.15	
Bromoform	<	3.8	< 1.6	< 1.6	< 1.6	
Carbon disulfide		17	< 0.29	< 0.29	< 0.29	
Carbon tetrachloride	<	1.5	< 0.59	< 0.59	< 0.59	
Chloroethane	<	1.3	4.7	< 0.50	< 0.50	
Chloroform	<	0.98	< 0.39	< 0.39	< 0.39	
Chloromethane*		12	11	14	16	
cis-1,2-Dichloroethylene		1,430	< 0.19	< 0.19	< 0.19	
Cyclohexane	4.1 J		< 0.30	< 0.30	< 0.30	
Dichlorodifluoromethane	<	0.84	2.4 J	2.5 J	2.7 J	
Ethanol		25.2	20.3	4.3	7.9	
Ethyl acetate	<	1.4	28	2.3 J	< 0.54	
Ethylbenzene		91.2	< 0.26	< 0.26	< 0.26	
Heptane		28	< 0.29	< 0.29	< 0.29	
Hexane		9.2	< 0.15	< 0.15	< 0.15	
Isopropyl alcohol*		8.8	5.4	2.5	2.9	
m,p-Xylene		292	2.9 J	< 0.61	3.4 J	
m-Dichlorobenzene	<	1.1	< 0.46	< 0.46	< 0.46	
Methyl ethyl ketone		39.8	2.2 J	1.6 J	1.7 J	
Methyl isobutyl ketone	<	1.5	< 0.57	< 0.57	< 0.57	
Methylene chloride*		7.6	< 0.20	< 0.20	< 0.20	
o-Xylene		149	< 0.30	< 0.30	< 0.30	
Propylene*		314	323	< 0.11	< 0.11	
Styrene	<	0.81	< 0.32	< 0.32	< 0.32	
Tertiary butyl alcohol		10	9.4	4.9	4.9	
Tetrachloroethylene		3.5	< 0.81	< 0.81	< 0.81	
Tetrahydrofuran	<	1.5	< 0.59	< 0.59	< 0.59	
Toluene		893	4.1	< 0.22	< 0.22	
trans-1,2-Dichloroethylene		80.1	< 0.11	< 0.11	< 0.11	
Trichloroethylene		677	2.0	< 0.41	< 0.41	100%
Trichlorofluoromethane	<	1.6	< 0.62	< 0.62	< 0.62	
Vinyl acetate	<	1.2	< 0.49	< 0.49	< 0.49	
Vinyl chloride*		188	335	137	148	
Xylenes (total)		443	2.9 J	< 0.30	3.4 J	
TVOCs		5,131	815	207	233	

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 **bolded**.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - December 2020**

Compound (ug/m ³)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5	Percent Removed
	Lab Sample ID: Date Sampled:	JD17808-1 12/15/2020	JD17808-2 12/15/2020	JD17808-3 12/15/2020	
1,1,1-Trichloroethane	<	3.6	< 0.93	< 0.71	
1,1-Dichloroethane	<	0.93	< 0.23	< 0.19	
1,1-Dichloroethylene		67.0	< 0.33	< 0.27	
1,2,4-Trimethylbenzene		43	< 0.84	< 0.64	
1,3,5-Trimethylbenzene		20	< 0.84	< 0.64	
1,4-Dioxane*	<	3.6	< 0.94	< 0.76	
2,2,4-Trimethylpentane		78.0	< 0.51	< 0.41	
2-Hexanone	<	3.0	< 0.74	< 0.61	
4-Ethyltoluene	<	2.9	< 0.74	< 0.59	
Acetone*		698	61.3	101	
Benzene		69.0	< 0.19	< 0.15	
Bromoform	<	7.8	< 2.0	< 1.6	
Carbon disulfide		22	< 0.37	< 0.29	
Carbon tetrachloride	<	3.0	< 0.75	< 0.59	
Chloroethane	<	2.6	5.0	1.3	J
Chloroform	<	2.0	< 0.49	< 0.39	
Chloromethane*		12	9.3	15	
cis-1,2-Dichloroethylene		2,320	2.9	J	< 0.19
Cyclohexane		21	< 0.38	< 0.30	
Dichlorodifluoromethane	<	1.6	< 0.41	< 0.33	
Ethanol		33.4	14	9.6	
Ethyl acetate	<	2.7	< 0.68	< 0.54	
Ethylbenzene		54.3	< 0.33	< 0.26	
Heptane		141	< 0.36	< 0.29	
Hexane		20	< 0.19	< 0.15	
Isopropyl alcohol*		22	5.2	5.4	
m,p-Xylene		162	< 0.74	2.2	J
m-Dichlorobenzene	<	2.3	< 0.57	< 0.46	
Methyl ethyl ketone		48.7	2.5	J	4.1
Methyl isobutyl ketone	<	3.0	< 0.74	< 0.57	
Methylene chloride*	<	1.0	< 0.25	< 0.20	
o-Xylene		66.9	< 0.37	< 0.30	
Propylene*		285	147	< 0.11	
Styrene	<	1.6	< 0.40	< 0.32	
Tertiary butyl alcohol	<	0.85	6.1	8.2	
Tetrachloroethylene	<	4.2	< 1.0	< 0.81	
Tetrahydrofuran	<	2.9	< 0.74	< 0.59	
Toluene		1,000	6.0	< 0.22	
trans-1,2-Dichloroethylene		106	< 0.15	< 0.11	
Trichloroethylene		1,140	4.7	1.2	100%
Trichlorofluoromethane	<	3.1	< 0.79	< 0.62	
Vinyl acetate	<	2.4	< 0.60	< 0.49	
Vinyl chloride*		314	152	88.7	
Xylenes (total)		229	< 0.37	2.2	J
TVOCs		6,743	416	237	

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 **bolded**.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - December 2020**

Compound (ug/m ³)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5	Percent Removed
	Lab Sample ID: Date Sampled:	JD18215-1 12/22/2020	JD18215-2 12/22/2020	JD18215-3 12/22/2020	
1,1,1-Trichloroethane	<	7.1	< 0.71	< 0.71	
1,1-Dichloroethane	<	1.9	< 0.19	< 0.19	
1,1-Dichloroethylene		80.5	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		2,310	< 0.64	< 0.64	
1,3,5-Trimethylbenzene		865	< 0.64	< 0.64	
1,4-Dioxane*	<	7.6	< 0.76	< 0.76	
2,2,4-Trimethylpentane		152	< 0.41	< 0.41	
2-Hexanone	<	6.1	< 0.61	< 0.61	
4-Ethyltoluene		341	< 0.59	< 0.59	
Acetone*		2,040	11	29.5	
Benzene		186	< 0.15	< 0.15	
Bromoform	<	16	< 1.6	< 1.6	
Carbon disulfide		33.9	< 0.29	< 0.29	
Carbon tetrachloride	<	5.9	< 0.59	< 0.59	
Chloroethane	<	5.0	< 0.50	< 0.50	
Chloroform	<	3.9	< 0.39	< 0.39	
Chloromethane*		18	15	14	
cis-1,2-Dichloroethylene		6,260	< 0.19	< 0.19	
Cyclohexane		38.2	< 0.30	< 0.30	
Dichlorodifluoromethane	<	3.3	< 0.33	< 0.33	
Ethanol		84.6	249	83.1	
Ethyl acetate	<	5.4	< 0.54	< 0.54	
Ethylbenzene		2,350	< 0.26	< 0.26	
Heptane		594	< 0.29	< 0.29	
Hexane		38.4	< 0.15	< 0.15	
Isopropyl alcohol*		99.6	4.4	20	
m,p-Xylene		7,340	2.2 J	5.6	
m-Dichlorobenzene	<	4.6	< 0.46	< 0.46	
Methyl ethyl ketone		321	< 0.50	3.5	
Methyl isobutyl ketone		75.0	< 0.57	2.3 J	
Methylene chloride*	<	2.0	< 0.20	< 0.20	
o-Xylene		2,630	< 0.30	2.1 J	
Propylene*		234	6.4	< 0.11	
Styrene		53.6	< 0.32	< 0.32	
Tertiary butyl alcohol	<	1.7	< 0.17	2.5	
Tetrachloroethylene		45	< 0.81	< 0.81	
Tetrahydrofuran	<	5.9	< 0.59	< 0.59	
Toluene		9,610	1.8 J	1.7 J	
trans-1,2-Dichloroethylene		247	< 0.11	< 0.11	
Trichloroethylene		9,460	1.6	< 0.41	100%
Trichlorofluoromethane	<	6.2	< 0.62	< 0.62	
Vinyl acetate	<	4.9	< 0.49	3.2	
Vinyl chloride*		271	< 0.23	< 0.23	
Xylenes (total)		9,950	2.2 J	7.8	
TVOCs		45,758	291	168	

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 **bolded**.

**Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - December 2020**

Compound (ug/m ³)	Sample ID:	VGAC-1	VGAC-3	KMNO4-5	Percent Removed
	Lab Sample ID: Date Sampled:	JD18315-1 12/29/2020	JD18315-2 12/29/2020	JD18315-3 12/29/2020	
1,1,1-Trichloroethane	<	7.1	< 0.71	< 0.71	
1,1-Dichloroethane	<	1.9	< 0.19	< 0.19	
1,1-Dichloroethylene		60.3	< 0.27	< 0.27	
1,2,4-Trimethylbenzene	<	6.4	< 0.64	< 0.64	
1,3,5-Trimethylbenzene	<	6.4	< 0.64	< 0.64	
1,4-Dioxane*	<	7.6	< 0.76	< 0.76	
2,2,4-Trimethylpentane		107	< 0.41	< 0.41	
2-Hexanone	<	6.1	< 0.61	< 0.61	
4-Ethyltoluene	<	5.9	< 0.59	< 0.59	
Acetone*		736	17	19	
Benzene		67.7	< 0.15	< 0.15	
Bromoform	<	16	< 1.6	< 1.6	
Carbon disulfide		19 J	< 0.29	< 0.29	
Carbon tetrachloride	<	5.9	< 0.59	< 0.59	
Chloroethane	<	5.0	< 0.50	< 0.50	
Chloroform	<	3.9	< 0.39	< 0.39	
Chloromethane*		11 J	16	11	
cis-1,2-Dichloroethylene		3,220	< 0.19	< 0.19	
Cyclohexane		20 J	< 0.30	< 0.30	
Dichlorodifluoromethane	<	3.3	2.5 J	2.1 J	
Ethanol		49.4	30.5	49.2	
Ethyl acetate	<	5.4	5.4	8.6	
Ethylbenzene		17 J	0.32 J	< 0.26	
Heptane		242	< 0.29	< 0.29	
Hexane		21 J	< 0.15	< 0.15	
Isopropyl alcohol*		121	1.0 J	7.4	
m,p-Xylene		21 J	0.65 J	< 0.61	
m-Dichlorobenzene	<	4.6	< 0.46	< 0.46	
Methyl ethyl ketone		70.8	< 0.50	< 0.50	
Methyl isobutyl ketone	<	5.7	< 0.57	< 0.57	
Methylene chloride*	<	2.0	< 0.20	< 0.20	
o-Xylene	<	3.0	0.32 J	< 0.30	
Propylene*		265	251	46.2	
Styrene	<	3.2	< 0.32	< 0.32	
Tertiary butyl alcohol	<	1.7	< 0.17	< 0.17	
Tetrachloroethylene	<	8.1	0.95 J	< 0.81	
Tetrahydrofuran	<	5.9	< 0.59	< 0.59	
Toluene		1,270	0.83 J	< 0.22	
trans-1,2-Dichloroethylene		111	< 0.11	< 0.11	
Trichloroethylene		2,500	0.81 J	< 0.41	100%
Trichlorofluoromethane	<	6.2	< 0.62	< 0.62	
Vinyl acetate	<	4.9	< 0.49	< 0.49	
Vinyl chloride*		258	363	138	
Xylenes (total)		21 J	1.0 J	< 0.30	
TVOCs		9,187	690	282	

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 **bolded**.

Analyte	Sample ID: Lab Sample ID: Date Sampled:	FRAC1-A2949- 20201202	LGAC-MID- 20201202	LGAC-INF- 20201202	FRAC2-A4272- 20201215	LGAC-MID- 20201215	LGAC-INF- 20201215	OU3 AIR STRIPPER FINAL EFF-20201215	OU3 AIR STRIPPER FINAL EFF-20201229						
		JD17006-1 / 1A 12/2/2020	JD17006-2 / 2A 12/2/2020	JD17006-3 / 3A 12/2/2020	JD17804-1 / 1A 12/15/2020	JD17804-2 / 2A 12/15/2020	JD17804-3 / 3A 12/15/2020	JD17804-4 12/15/2020	JD18326-1 12/29/2020						
Volatile Organic Compounds (ug/L, detect)															
1,2,3-Trichlorobenzene	<	0.50	<	0.50	<	0.50	<	0.50	1.2	-	-				
2-Butanone (MEK)	<	6.9	<	6.9	103	<	6.9	<	6.9	139	-	-			
2-Hexanone	<	2.0	<	2.0	4.1 J	<	2.0	<	2.0	7.0	-	-			
4-Methyl-2-pentanone (MIBK)	<	1.9	<	1.9	6.5	<	1.9	<	1.9	10.4	-	-			
Acetone*	<	6.0	<	6.0	532	<	6.0	<	6.0	899	-	-			
Benzene	<	0.43	<	0.43	0.84	<	0.43	<	0.43	0.78	-	-			
cis-1,2-Dichloroethene	<	0.51	<	0.51	95.9	<	0.51	<	0.51	89.7	-	-			
Ethylbenzene	<	0.60	<	0.60	4.9	<	0.60	<	0.60	4.4	-	-			
Isopropylbenzene	<	0.65	<	0.65	<	0.65	<	0.65	0.66	J	-	-			
m,p-Xylene	<	0.78	<	0.78	21.2	<	0.78	<	0.78	22.1	-	-			
o-Xylene	<	0.59	<	0.59	15.8	<	0.59	<	0.59	13.7	-	-			
Styrene	<	0.49	<	0.49	<	0.49	<	0.49	1.4	-	-				
Toluene	<	0.53	<	0.53	52.5	<	0.53	<	0.53	44.1	-	-			
trans-1,2-Dichloroethene	<	0.54	<	0.54	0.67	J	<	0.54	<	0.54	0.98	J	-	-	
Trichloroethene	<	0.53	<	0.53	15.7	<	0.53	<	0.53	25.6	-	-			
Xylene (total)	<	0.59	<	0.59	37.0	<	0.59	<	0.59	35.8	-	-			
TVOCs		0.0		0.0	853		0.0		0.0	1,260					
Semivolatile Organic Compounds (ug/L, c)															
1,1'-Biphenyl	<	0.21	<	0.21	2.6	<	0.21	<	0.21	0.70	J	-	-		
1,4-Dioxane	<	0.66	<	0.66	26.4	<	0.66	<	0.66	9.5	-	-			
2,4-Dimethylphenol	<	2.4	<	2.4	386	<	2.4	<	2.4	11.2	-	-			
2-Methylnaphthalene	<	0.21	<	0.21	5.8	<	0.21	<	0.21	1.1	-	-			
2-Methylphenol	<	0.89	<	0.89	183	<	0.89	<	0.89	5.9	-	-			
3&4-Methylphenol	<	0.88	<	0.88	683	<	0.88	<	0.88	5.0	-	-			
Acenaphthene	<	0.19	<	0.19	1.5	<	0.19	<	0.19	0.30	J	-	-		
Acetophenone	<	0.21	<	0.21	33.5	<	0.21	0.22	J	0.94	J	-	-		
Anthracene	<	0.21	<	0.21	0.49	J	<	0.21	<	0.21	0.25	J	-	-	
Carbazole	<	0.23	<	0.23	0.51	J	<	0.23	<	0.23	<	0.23	-	-	
Dibenzofuran	<	0.22	<	0.22	0.76	J	<	0.22	<	0.22	0.31	J	-	-	
Dimethyl phthalate	<	0.22	<	0.22	3.2	<	0.22	<	0.22	<	0.22	-	-		
Fluoranthene	<	0.17	<	0.17	0.34	J	<	0.17	<	0.17	0.62	J	-	-	
Fluorene	<	0.17	<	0.17	1.8	<	0.17	<	0.17	0.67	J	-	-		
Naphthalene	<	0.23	<	0.23	10.1	<	0.23	<	0.23	0.89	J	-	-		
Phenanthrene	<	0.18	<	0.18	2.6	<	0.18	<	0.18	1.9	-	-	-		
Phenol	<	0.39	<	0.39	210	<	0.39	<	0.39	<	0.39	-	-		
Pyrene	<	0.22	<	0.22	<	0.22	<	0.22	<	0.22	0.47	J	-	-	
Semivolatile Organic Compounds (SIM) (t															
1,4-Dioxane	<	0.050	<	0.050	25.0	<	0.050	<	0.050	7.02	-	-			
Polychlorinated Biphenyls (ug/L):															
Aroclor 1016	<	0.13	<	0.13	<	0.13	<	0.098	<	0.098	<	0.098	-	-	
Aroclor 1221	<	0.28	<	0.28	<	0.28	<	0.21	<	0.21	<	0.21	-	-	
Aroclor 1232	<	0.17	<	0.17	<	0.17	<	0.13	<	0.13	<	0.13	-	-	
Aroclor 1242	<	0.15	<	0.15	<	0.15	<	0.11	<	0.11	<	0.11	-	-	
Aroclor 1248	<	0.084	<	0.084	<	0.084	<	0.063	<	0.063	<	0.063	-	-	
Aroclor 1254	<	0.28	<	0.28	<	0.28	<	0.21	<	0.21	<	0.21	-	-	
Aroclor 1260	<	0.10	<	0.10	<	0.10	<	0.076	<	0.076	<	0.076	-	-	
Aroclor 1262	<	0.13	<	0.13	<	0.13	<	0.097	<	0.097	<	0.097	-	-	
Aroclor 1268	<	0.12	<	0.12	<	0.12	<	0.087	<	0.087	<	0.087	-	-	
Metals (mg/L):															
Cadmium	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	15	-	-	
Chromium	<	10	<	10	<	10	<	10	<	10	<	50	-	-	
Iron		779		749		2,250		906		404		4,800	234	754	
Manganese		497		270		246		230		243		206	172	100	
Mercury	<	0.20	<	0.20	<	0.20	<	0.20	<	0.20	<	2.3	-	-	
General Chemistry (mg/L):															
Nitrogen, Nitrate		0.84	<	0.11	0.18	<	0.11	<	0.11	<	0.11	<	0.11	-	-
Nitrogen, Nitrate + Nitrite		1.0	<	0.10	0.20	<	0.10	<	0.10	<	0.10	<	0.10	-	-
Nitrogen, Nitrite		0.16	<	0.010	0.024		0.018	<	0.010	<	0.010	<	0.010	-	-
Nitrogen, Total Kjeldahl		1.5		2.5		3.0		3.0		2.5		1.7	-	-	

Footnotes:

- ug/L micrograms per liter
- mg/L milligrams per liter
- * Poorly adsorbed on activated carbon.
- ** 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 **bolded**.

Table 3: Ambient Air Laboratory Results (2020-11-25 through 2020-12-01)

Analyte	Target Screening Level (µg/m³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m³) ²	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-04-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.46	< 0.27	< 0.26	< 0.22	< 0.22
1,1-Dichloroethane	45	< 0.25	< 0.34	< 0.2	< 0.19	< 0.16	< 0.16
1,1-Dichloroethene	8	<0.25	< 0.17	< 0.1	< 0.094	< 0.08	< 0.08
1,2-Dichloroethane	3	< 0.25	< 0.34	< 0.2	< 0.19	< 0.16	< 0.16
Benzene	8	5.8	1.0	0.88	0.80	0.81	0.82
Ethyl-benzene	29	1.9	0.38	0.30	0.26	0.33	0.47
m,p-Xylene	10	3.1	1.2 J	0.98 J	0.78 J	1.6 J	2.7 J
o-Xylene	10	2.3	0.59 J	0.41 J	0.33 J	0.75 J	1.3 J
Tetrachloroethene	30	1.6	< 0.57	< 0.34	< 0.32	< 0.27	< 0.27
Toluene	521	21	2.7	2.1	2.0	1.7	2.0
trans-1,2-Dichloroethene	82	NA2	< 1.7	< 1.0	< 0.94	< 0.80	< 0.80
Trichloroethene	2	0.5	< 0.45	< 0.27	< 0.25	< 0.22	< 0.22
Vinyl Chloride	8	< 0.25	< 0.11	< 0.064	< 0.06	< 0.051	< 0.051
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.58	< 0.34	< 0.32	< 0.28	< 0.28
1,1,2-Trichloroethane	0.21	< 0.25	< 0.46	< 0.27	< 0.26	< 0.22	< 0.22
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.65	< 0.38	< 0.36	< 0.31	< 0.31
1,4-Dichlorobenzene	7	0.8	< 0.51	< 0.30	< 0.28	< 0.24	< 0.24
Carbon Tetrachloride	12	1	< 0.53	0.49	0.50	0.50	0.50
Chloroethane	417	0.4	< 0.56	< 0.33	< 0.31	< 0.26	< 0.26
Chloroform	3	0.5	< 0.41	< 0.24	< 0.23	< 0.2	< 0.2
Chloromethane	310	4.6	< 4.4 J	< 2.6 J	< 2.4 J	< 2.1 J	< 2.1 J
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.34	< 0.2	< 0.19	< 0.16	< 0.16
Freon 114	NA1	1.3	< 0.59	< 0.35	< 0.33	< 0.28	< 0.28
Freon 12	100	11	2.2	2.2	2.3	2.3	2.3
Methyl tert-butyl ether	260	NA2	< 1.5	< 0.9	< 0.85	< 0.72	< 0.72

Notes:

µg/m³ - micrograms per cubic meter

Bold - indicates detections

R - rejected after data validation

< - indicates not detected at or above the indicated value

NA1 - no criteria given in the EPA RSL Calculator

J - indicates sample result is estimated

NA2 - NYSDOH did not include this compound in the guidance document²

¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2020-12-01 through 2020-12-07)

Analyte	Target Screening Level (µg/m ³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m ³) ²	Ambient Air Concentration (µg/m ³)				
			Sample Location				
			AMP-01*	AMP-02	AMP-03	AMP-04	AMP-02-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.16	< 0.2	< 0.16	< 0.2	< 0.2
1,1-Dichloroethane	45	< 0.25	< 0.12	< 0.14	< 0.12	< 0.15	< 0.15
1,1-Dichloroethene	8	<0.25	< 0.057	< 0.071	< 0.057	< 0.072	< 0.072
1,2-Dichloroethane	3	< 0.25	< 0.12	< 0.14	0.12	< 0.15	< 0.15
Benzene	8	5.8	0.6	0.53	0.85	0.55	0.54
Ethyl-benzene	29	1.9	0.15	< 0.16	1.2	< 0.16	< 0.16
m,p-Xylene	10	3.1	0.44	0.35	12	0.37	0.36
o-Xylene	10	2.3	0.17	< 0.16	4.5	0.16	< 0.16
Tetrachloroethene	30	1.6	< 0.2	< 0.24	< 0.2	< 0.24	< 0.24
Toluene	521	21	1.9	0.98	5.4	0.96	0.98
trans-1,2-Dichloroethene	82	NA2	< 0.57	< 0.71	< 0.57	< 0.72	< 0.72
Trichloroethene	2	0.5	< 0.15	< 0.19	< 0.16	< 0.19	< 0.19
Vinyl Chloride	8	< 0.25	< 0.037	< 0.046	< 0.037	< 0.046	< 0.046
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.2	< 0.25	< 0.2	< 0.25	< 0.25
1,1,2-Trichloroethane	0.21	< 0.25	< 0.16	< 0.2	< 0.16	< 0.2	< 0.2
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.22	< 0.28	< 0.22	< 0.28	< 0.28
1,4-Dichlorobenzene	7	0.8	< 0.17	< 0.22	< 0.17	< 0.22	< 0.22
Carbon Tetrachloride	12	1	0.66	0.55	0.54	0.54	0.55
Chloroethane	417	0.4	< 0.19 J	< 0.24 J	< 0.19 J	< 0.24 J	< 0.24 J
Chloroform	3	0.5	< 0.14	< 0.18	< 0.14	< 0.18	< 0.18
Chloromethane	310	4.6	< 1.5 J	< 1.8 J	< 1.5 J	< 1.9 J	< 1.9 J
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.11	< 0.14	< 0.11	< 0.14	< 0.14
Freon 114	NA1	1.3	< 0.2	< 0.25	< 0.2	< 0.25	< 0.25
Freon 12	100	11	2.6	2.3	2.3	2.3	2.3
Methyl tert-butyl ether	260	NA2	< 0.52	< 0.65	< 0.52	< 0.65	< 0.65

Notes:

µg/m³ - micrograms per cubic meter

< - indicates not detected at or above the indicated

value J - indicates sample result is estimated

Bold - indicates detections

R - rejected after data validation

NA1 - no criteria given in the EPA RSL Calculator

NA2 - NYSDOH did not include this compound in the guidance document²

* - Sample collected over a 4-day period because of low vacuum

¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2020-12-07 through 2020-12-12)

Analyte	Target Screening Level (µg/m ³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m ³) ²	Ambient Air Concentration (µg/m ³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-03-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.3	< 0.25	< 0.25	< 0.26	< 0.25
1,1-Dichloroethane	45	< 0.25	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	8	< 0.25	< 0.11	< 0.091	< 0.091	< 0.094	< 0.091
1,2-Dichloroethane	3	< 0.25	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19
Benzene	8	5.8	0.73	0.76	0.72	0.69	0.73
Ethyl-benzene	29	1.9	< 0.24	< 0.2	< 0.2	< 0.2	< 0.2
m,p-Xylene	10	3.1	0.5	0.54	0.52	0.47	0.53
o-Xylene	10	2.3	< 0.24 J	0.2 J	0.21 J	< 0.2 J	0.21 J
Tetrachloroethene	30	1.6	< 0.38	< 0.31	< 0.31	< 0.32	< 0.31
Toluene	521	21	1.4	1.3	1.4	1.1	1.7
trans-1,2-Dichloroethene	82	NA2	< 1.1	< 0.91	< 0.91	< 0.94	< 0.91
Trichloroethene	2	0.5	< 0.3	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	8	< 0.25	< 0.071	< 0.059	< 0.059	< 0.06	< 0.059
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32
1,1,2-Trichloroethane	0.21	< 0.25	< 0.3	< 0.25	< 0.25	< 0.26	< 0.25
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.42	< 0.35	< 0.35	< 0.36	< 0.35
1,4-Dichlorobenzene	7	0.8	< 0.33 J	< 0.28 J	< 0.28 J	< 0.28 J	< 0.28 J
Carbon Tetrachloride	12	1	0.35	0.38	0.37	0.38	1.9
Chloroethane	417	0.4	< 0.36	< 0.3	< 0.3	< 0.31	< 0.3
Chloroform	3	0.5	< 0.27	< 0.22	< 0.22	< 0.23	< 0.22
Chloromethane	310	4.6	< 2.9	< 2.4	< 2.4	< 2.4	< 2.4
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.22	< 0.18	< 0.18	< 0.19	< 0.18
Freon 114	NA1	1.3	< 0.39	< 0.32	< 0.32	< 0.33	< 0.32
Freon 12	100	11	2.1	2.2	2.2	2.2	2.2
Methyl tert-butyl ether	260	NA2	< 1	< 0.83	< 0.83	< 0.85	< 0.83
Notes:							
µg/m ³ - micrograms per cubic meter				R - rejected after data validation			
< - indicates not detected at or above the indicated value				NA1 - no criteria given in the EPA RSL Calculator			
value J - indicates sample result is estimated				NA2 - NYSDOH did not include this compound in the guidance document ²			
Bold - indicates detect							
¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)							
² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)							
³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan							

Table 3: Ambient Air Laboratory Results (2020-12-12 through 2020-12-18)

Analyte	Target Screening Level (µg/m ³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m ³) ²	Ambient Air Concentration (µg/m ³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-04-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.22	< 0.18	< 0.30	< 0.19	< 0.19
1,1-Dichloroethane	45	< 0.25	< 0.17	< 0.13	< 0.22	< 0.14	< 0.14
1,1-Dichloroethene	8	<0.25	< 0.082	< 0.065	< 0.11	< 0.068	< 0.068
1,2-Dichloroethane	3	< 0.25	< 0.17	< 0.13	< 0.22	< 0.14	< 0.14
Benzene	8	5.8	0.36	0.36	< 0.44	0.35	0.35
Ethyl-benzene	29	1.9	< 0.18	< 0.14	< 0.24	< 0.15	< 0.15
m,p-Xylene	10	3.1	< 0.36	0.31	1.2	< 0.30	< 0.30
o-Xylene	10	2.3	< 0.18	< 0.14	0.50	< 0.15	< 0.15
Tetrachloroethene	30	1.6	< 0.28	< 0.22	< 0.38	< 0.23	< 0.23
Toluene	521	21	0.46	0.50	1.3	0.47	0.50
trans-1,2-Dichloroethene	82	NA2	< 0.82	< 0.65	< 1.1	< 0.68	< 0.68
Trichloroethene	2	0.5	< 0.22	< 0.18	< 0.30	< 0.18	< 0.18
Vinyl Chloride	8	< 0.25	< 0.053	< 0.042	< 0.071	< 0.044	< 0.044
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.28	< 0.22	< 0.38	< 0.23	< 0.23
1,1,2-Trichloroethane	0.21	< 0.25	< 0.22	< 0.18	< 0.30	< 0.19	< 0.19
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.32	< 0.25	< 0.42	< 0.26	< 0.26
1,4-Dichlorobenzene	7	0.8	< 0.25	< 0.20	< 0.33	< 0.20	< 0.20
Carbon Tetrachloride	12	1	0.42	0.42	0.39	0.43	0.41
Chloroethane	417	0.4	< 0.27	< 0.22	< 0.36	< 0.22	< 0.22
Chloroform	3	0.5	< 0.20	< 0.16	< 0.27	< 0.17	< 0.17
Chloromethane	310	4.6	< 2.1	< 1.7	< 2.9	< 1.8	< 1.8
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.16	< 0.13	< 0.22	< 0.14	< 0.14
Freon 114	NA1	1.3	< 0.29	< 0.23	< 0.39	< 0.24	< 0.24
Freon 12	100	11	2.2	2.2	2.1	2.2	2.2
Methyl tert-butyl ether	260	NA2	< 0.74	< 0.59	< 1.0	< 0.62	< 0.62

Notes:

µg/m³ - micrograms per cubic meter

Bold - indicates detections

R - rejected after data validation

< - indicates not detected at or above the indicated value

NA1 - no criteria given in the EPA RSL Calculator

J - indicates sample result is estimated

NA2 - NYSDOH did not include this compound in the guidance document²

¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2020-12-18 through 2020-12-23)

Analyte	Target Screening Level (µg/m ³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m ³) ²	Ambient Air Concentration (µg/m ³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04*	AMP-02-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.24	< 0.24	< 0.22	< 0.14 J	< 0.24
1,1-Dichloroethane	45	< 0.25	< 0.18	< 0.18	< 0.17	< 0.1 J	< 0.18
1,1-Dichloroethene	8	<0.25	< 0.086	< 0.086	< 0.082	< 0.051 J	< 0.086
1,2-Dichloroethane	3	< 0.25	< 0.18	< 0.18	< 0.17	< 0.1 J	< 0.18
Benzene	8	5.8	1.3	1.3	1.2	0.99 J	1.2
Ethyl-benzene	29	1.9	0.34	0.34	0.36	0.23 J	0.33
m,p-Xylene	10	3.1	0.96	0.97	1.1	0.66 J	0.94
o-Xylene	10	2.3	0.42	0.38	0.48	0.29 J	0.37
Tetrachloroethene	30	1.6	0.32	0.32	0.3	0.21 J	0.33
Toluene	521	21	2.1	2	2.1	1.4 J	2.1
trans-1,2-Dichloroethene	82	NA2	< 0.86	< 0.86	< 0.82	< 0.51 J	< 0.86
Trichloroethene	2	0.5	< 0.23	< 0.23	< 0.22	< 0.14 J	< 0.23
Vinyl Chloride	8	< 0.25	< 0.055	< 0.055	< 0.053	< 0.033 J	< 0.055
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.3	< 0.3	< 0.28	< 0.18 J	< 0.3
1,1,2-Trichloroethane	0.21	< 0.25	< 0.24	< 0.24	< 0.22	< 0.14 J	< 0.24
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.33	< 0.33	< 0.32	< 0.2 J	< 0.33
1,4-Dichlorobenzene	7	0.8	< 0.26	< 0.26	< 0.25	< 0.16 J	< 0.26
Carbon Tetrachloride	12	1	0.55	0.53	0.54	0.57 J	0.54
Chloroethane	417	0.4	< 0.29	< 0.29	< 0.27	< 0.17 J	< 0.29
Chloroform	3	0.5	< 0.21	< 0.21	< 0.2	< 0.12 J	< 0.21
Chloromethane	310	4.6	< 2.2 J	< 2.2 J	< 2.1 J	< 1.3 J	< 2.2 J
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.17	< 0.17	< 0.16	< 0.1 J	< 0.17
Freon 114	NA1	1.3	< 0.3	< 0.3	< 0.29	< 0.18 J	< 0.3
Freon 12	100	11	2.3	2.3	2.3	2.4 J	2.3
Methyl tert-butyl ether	260	NA2	< 0.78	< 0.78	< 0.74	< 0.46 J	< 0.78
Notes: µg/m ³ - micrograms per cubic meter < - indicates not detected at or above the indicated value J - indicates sample result is estimated Bold - indicates detections R - rejected after data validation NA1 - no criteria given in the EPA RSL Calculator NA2 - NYSDOH did not include this compound in the guidance document ² * - Sample collected over a 5-day period because of low vacuum ¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020) ² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006) ³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan							

Table 3: Ambient Air Laboratory Results (2020-12-23 through 2020-12-29)

Analyte	Target Screening Level (µg/m ³) ^{1,3}	95% of Concentration Distribution NYSDOH Background Air (µg/m ³) ²	Ambient Air Concentration (µg/m ³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-02-DUP
Site-specific Compounds of Interest¹							
1,1,1-Trichloroethane	520	0.7	< 0.88	< 0.2	< 0.14 J	< 0.8	< 0.2
1,1-Dichloroethane	45	< 0.25	< 0.65	< 0.15	< 0.1 J	< 0.59	< 0.14
1,1-Dichloroethene	8	< 0.25	< 0.32	< 0.072	< 0.052 J	< 0.29	< 0.071
1,2-Dichloroethane	3	< 0.25	< 0.65	< 0.15	< 0.1 J	< 0.59	< 0.14
Benzene	8	5.8	< 1.3	0.68	0.39 J	< 1.2	0.67
Ethyl-benzene	29	1.9	< 0.7	0.16	< 0.11 J	< 0.63	< 0.16
m,p-Xylene	10	3.1	< 1.4	0.51	0.23 J	< 1.3	0.45
o-Xylene	10	2.3	< 0.7	0.22	< 0.11 J	< 0.63	0.17
Tetrachloroethene	30	1.6	< 1.1	< 0.25	< 0.18 J	< 0.99	< 0.24
Toluene	521	21	< 1.5	2.3	0.35 J	< 1.4	2
trans-1,2-Dichloroethene	82	NA2	< 3.2	< 0.72	< 0.52 J	< 2.9	< 0.71
Trichloroethene	2	0.5	< 0.86	< 0.2	< 0.14 J	< 0.78	< 0.19
Vinyl Chloride	8	< 0.25	< 0.2	< 0.047	< 0.033 J	< 0.19	< 0.046
Other Compounds³							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 1.1	< 0.25	< 0.18 J	< 1	< 0.24
1,1,2-Trichloroethane	0.21	< 0.25	< 0.88	< 0.2	< 0.14 J	< 0.8	< 0.2
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 1.2	< 0.28	< 0.2 J	< 1.1	< 0.28
1,4-Dichlorobenzene	7	0.8	< 0.97	< 0.22	< 0.16 J	< 0.88	< 0.22
Carbon Tetrachloride	12	1	< 1 J	3.5	0.5 J	< 0.92 J	0.48 J
Chloroethane	417	0.4	< 1.1	< 0.24	< 0.17 J	< 0.96	< 0.24
Chloroform	3	0.5	< 0.78	< 0.18	< 0.13 J	< 0.71	< 0.17
Chloromethane	310	4.6	< 8.3	< 1.9	< 1.3 J	< 7.5	< 1.8
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.64	< 0.14	< 0.1 J	< 0.58	< 0.14
Freon 114	NA1	1.3	< 1.1	< 0.26	< 0.18 J	< 1	< 0.25
Freon 12	100	11	2.4	2.6	2.7 J	2.5	2.5
Methyl tert-butyl ether	260	NA2	< 2.9	< 0.66	< 0.47 J	< 2.6	< 0.64

Notes:

µg/m³ - micrograms per cubic meter

Bold - indicates detections

R - rejected after data validation

< - indicates not detected at or above the indicated value

NA1 - no criteria given in the EPA RSL Calculator

J - indicates sample result is estimated

NA2 - NYSDOH did not include this compound in the guidance document²

¹ Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

² NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

³ Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan