### Remedial Investigation Report Former FO Pierce Company 2-33 50<sup>th</sup> Avenue, Long Island City, New York

**APPENDIX I** 

Data Usability Summary Report for Remedial Investigation Data

2887.0004Y114/CVRS ROUX



Date: September 14, 2021

To: Jeffrey Wills, Roux Environmental Engineering and Geology, D.P.C.

From: Josh Cope, Roux Associates, Inc.

Subject: Data Usability Summary Report (DUSR)

Validation of Laboratory Analytical Data for 2-33 50th Avenue, Long Island City,

**New York** 

Alpha Analytical SDG Nos.: L2137321; L2137326; L2137704; L2137880; L2138333; L2138378; L2138557; L2138569; L2138743; L2138761; L2139080; L2139084; L2139379; L2139531; L2139974; L2140045; L2140226; L2140250; I2140491;

L2140493; L2140552; L2142420 L2142439; L2142480; L2142499.

Review has been completed for the data packages generated by Alpha Analytical of Westborough, Massachusetts and Alpha Analytical of Mansfield, Massachusetts. The data packages pertain to samples collected during July 2021 through August 2021 at 2-33 50th Avenue, Long Island City, New York. Groundwater samples were analyzed for volatiles, semivolatiles, pesticides, PCBs, herbicides, metals, cyanide, hexavalent chromium and perfluorinated hydrocarbons (PFC). Soil samples were analyzed for volatiles, semivolatiles, pesticides, PCBs, herbicides, metals, cyanide, hexavalent chromium and PFCs. Soil vapor samples were analyzed for volatiles.

The data packages submitted by the laboratory contain full deliverables for validation. This usability report is generated from review of the QC summary form information, full review of sample raw data, and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from USEPA national and regional validation guidance, and in consideration of the specific analytical method requirements. The following items were reviewed:

- Data completeness;
- Case narrative;
- Custody documentation;
- Holding times;
- Surrogate and internal standard recoveries;
- Trip, method, and field blanks;
- · Matrix spikes and duplicates;
- Field duplicates;
- Laboratory control samples;
- · Instrument tunes checks;
- Initial calibrations;
- Calibration checks;
- Isotope dilutions;

- Method compliance; and
- Analytical result verification.

The data review includes evaluation of the items noted in the NYS DER-10 Appendix 2B Section 2.0(c). Deficiencies noted during data review are discussed within the following text. The laboratory QC forms discussed herein can be found within the laboratory data packages.

The sample analyses were performed in general accordance with analytical protocols, and sample results are usable as reported or with minor qualifications as discussed herein.

Some samples were diluted due to extract or matrix effects. This resulted in elevated reporting limits for those samples. Sample results which exceed the calibration range are qualified with an "E" flag, for any analytes that exceed the calibration range.

Data completeness, accuracy, precision, representativeness, and comparability are acceptable. The validator qualifications recommended in this report are provided on the EDDs.

#### Perfluorinated Hydrocarbons by EPA E537-LL

One or more internal standard (IS) responses are below criteria for samples L2137321-07, L2142439-03, L2142439-04. The associated sample results are qualified as approximate.

The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria for one or more analytes in the following samples: L2137880-01, and -09; L2138378-01; and L2142439-01, -02, -04, -08, -09, -10 and -11. The sample results for these analytes are qualified as estimated.

Perfluorohexanoic acid (PFHXA) is detected in field blank for SDG L2137321 at less than the reporting limit. The associated sample detections less than the reporting limit are qualified as "B" to indicate detection of PFHXA in the blank.

#### **Volatiles by EPA TO-15**

The associated QC data were acceptable.

### **Volatile Organic Compounds by EPA 8260**

Acetone is detected in trip blank for SDG L2142420 at less than the reporting limit. The associated sample detections less than the reporting limit are qualified as "B" to indicate detection of acetone in the blank.

One or more surrogate recoveries are above criteria for the following samples: L2137326-07 and -08. The results for these samples are qualified biased high.

One or more surrogate recoveries are below criteria for the following sample: L2139080-01 and -02. The results for these samples are qualified biased low.

Samples L2138743-03, L2140226-01, L2140226-04 were analyzed by both High Level Methanol and Low Level methods. Differences between the results of both analyses are greater than 50% and may be due to vial discrepancies. The Low Level results are reported. These detections are estimated.

Sample L2142480-01 was analyzed for 1,4-dioxane by SW846 Methods 8260C and 8270D-SIM. The 1,4-dioxane result for this sample will be reported from the 8270D-SIM analysis, which has a lower reporting limit.

The MS/MSD and laboratory duplicates had acceptable recoveries and/or RPDs with the following exceptions outside control limits:

Several analytes in samples L2137704-01 and L2137704-11;

The detections of these analytes in the parent samples are qualified as estimated.

### Semivolatile Organic Compounds by EPA 8270

Naphthalene and 2-methyl naphthalene are detected in method blank for SDG 2142480. The associated sample detections are qualified as "B" to indicate detection of these analytes in the blank.

The method blank for SDGs L2137704 and L2142420 has tentatively identified compounds (TICs) detected. The results are qualified with a "B" for any associated samples that have detections of the same TICs.

Fluoranthene, phenanthrene, and pyrene are detected in field blank for SDG L2142420 at less than the reporting limit. The associated sample detections less than the reporting limit are qualified as "B" to indicate detection of these analytes in the blank.

One or more base/neutral surrogate recoveries are above criteria for the following samples: L2137326-08. The associated results for these samples are qualified biased high.

One or more acid surrogate recoveries are below criteria for the following samples: L2137704-01. The associated results for these samples are qualified biased low.

The MS/MSD had acceptable recoveries and/or RPDs with the following exceptions outside control limits:

Several analytes in samples L2137704-01 and -11.

The detections of these analytes in the parent samples are qualified as estimated.

The field duplicate pair RPDs met criteria with the following exceptions:

- Naphthalene in duplicate pair L2137704-01/-02.
- Naphthalene and 2-methylnaphthalene in duplicate pair L2142420-01/-02.

The associated analytes in the duplicate pair have been qualified as estimated.

### Pesticides by EPA 8081

The %RPD between the primary and confirmation column exceeded 40% for one or more compounds in the following samples: L2137326-02; L2137704-01, -02, and -11; L2139080-05; L2139379-01; L2139974-01; and L2140226-01. The lower value has been reported and qualified as estimated.

One or more surrogate recoveries are above criteria for the following samples: L2137704-08. The associated results for these samples are qualified biased high.

### PCBs by EPA 8082

The associated QC data were acceptable.

### **Herbicides by EPA 8151**

The associated QC data were acceptable.

#### Metals by EPA 6020/7470/7471

Dissolved barium, calcium, iron, manganese, and thallium, and total barium and thallium are detected in the field blank for SDG L2142420 at less than the reporting limit. The associated sample detections less than the reporting limit are qualified as "B" to indicate detection of these analytes in the blank.

Dissolved aluminum and total zinc are detected in the field blank for SDG L2142420 above the reporting limit. The associated sample detections less than five times the blank concentration are qualified as "B" to indicate detection of these analytes in the blank.

The MS/MSD and laboratory duplicates had acceptable recoveries and/or RPDs with the following exceptions outside control limits:

- Antimony, calcium, and lead sample L2137704-01;
- Mercury in sample L2137704-11;
- Magnesium and mercury in sample L2137704-11/-12;
- Arsenic, cadmium, chromium, cobalt, manganese, lead, zinc, nickel, and thallium in sample L238743-03;
- Barium, chromium, copper, lead, magnesium, and zinc in sample L2139080-01; and
- Antimony, aluminum, calcium, chromium, cobalt, silver, lead, mercury, barium, magnesium, thallium, and zinc in sample L2140226-01.

The detections of these analytes in the parent samples are qualified as estimated.

The field duplicate pair RPDs met criteria with the following exceptions:

- Calcium and zinc in duplicate pair L2137704-01/-02; and
- Magnesium and mercury in duplicate pair L2137704-11/-12.

The associated analytes in the duplicate pairs have been qualified as estimated.

#### Cyanide by EPA 9012

The LCS/LCSD had acceptable recoveries and/or RPDs with the following exceptions outside control limits: low recovery for cyanide in SDGs L2137326, L2137704, L2138333, L2138557, L2138743, L2139080, L2139379, L2140226, L2140491, and L2142420. The associated sample results are qualified biased low.

#### **Hexavalent Chromium by EPA 7196A**

The LCS had acceptable recoveries with the following exceptions outside control limits: low recovery for hexavalent chromium in SDGs L2139080. The associated sample results are qualified biased low.

The MS and laboratory duplicates had acceptable recoveries and/or RPDs with the following exceptions outside control limits: L2138743-03, L2140491-02. The detections of hexavalent chromium in the parent samples are qualified as estimated.

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### **APPENDIX J**

**Groundwater Sampling Forms** 

2887.0004Y114/CVRS ROUX

OV Client:

MW-12

8/6/21

Project Number: 2887.000 44000

Well No:

Site Location:

Date:

Sampled By:

Depth of Well (ft):

Depth to Water(ft):

Depth to Product (ft):

well diameter: gallons per foot

Start Purging: End Purging:

Method of Purge:

Physical Appearance/

Comments:

Samples Collected: (analyses / no. bottles)

Time:

0735

see coc

0850

1 in

Weather: Clear, 73° F

Purge Water Disposal: dnim

Well Diameter / Type: 2" PVC

Water Column (ft):

Volume of Water in Well (gal)

Volume of Water to Remove (gal):

2 in

6 in 4 in 1.469 0 653

2.611

150 m//m.1 Purge Rate: Volume of Water Removed (gal):

Method of Sampling: low-flow

DUP-6W-08062021 + MS/MSD

0850 DUP @ 1200

Alpha Laboratory:

Field Measurements:

	Time	DTW	Plow Rate ml/min	ORP mV	mS/m - S/m	NTU	SU	C'. F	mg/L (w/m 10%)	
				(+/- 10 mV)	(w/in 3%)	(w/m %10)	(+/-0.1)	(w/in 3%)		1
	0745	7.56	150	115	0.723	682	6.68	17.75	ORDE	1
2		7.48		103	0.703	0.0	6.97	19.23	MARIO	1
	0191	7.49		91	0,699	301	6.96	18.68	5.50	1
	0759			104	0.705	206	6.18	18.54	1.00	
	0804	749		STATE OF THE PARTY	0.710	193	6.98	18.60	0.52	1
	0809	7.49		126		176	697	18.48	1.60	1
	0814	749		165	0.716	116			1.23	1
1	0819	749		188	0.720	177	6.96	18.45		1
1	0824	7.49		196	0 722	181	6.94	18.32	0.20	1
-	The second secon			198	0.724	156	6.94	18.23	0.00	
-	0829	749		193	0.725	138	6.93	18.20	0.00	1
-	0834	7.49				141	6.94	18.11	0.00	1
ſ	0839	7.49		178	0.725				0.00	1
1	0844	7.49		173	0.724	129	6.94	18.14		1
+		7.49	5	168	0.724	125	6.95	18.19	0.00	1
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ROUX ASSOCIATES, INC.

8.67 6.02

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	1000	7.94		-93	1.79	" Tim	6.22	27.12	0.00
	1005	743		-59	9.8	10.3	6,20	2216	6.60
	1010	742	The second second second	-63	8.8	9.4	6.17	22017	0.00
	1019	7,43		-64	1,23	9.6	6.16	77.17	6.00
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	Sampled B	y:	BV		Well Diameter	Type:	105 1	10.86	
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	Physical Appearance (1601, 50ML)? Comments:								
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	(analyses / no.	bottles)				Labor	atory: Al	pha	
		Time:	<u> </u>	00		Lation	auny .		
	Field Meast	grements:				Turbidity	pR	Temperature	Dissolved O <sub>1</sub>
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	9da	8.20		-75	0.752	365	6.39	20.65	13.40
	800	7.15		-50	0.690	373	6.26	70.62	10.9
	805	7.05		-58	0.686	337	6.33	71.41	
1	810	7.02		-63	0.685	30	6.37	21.98	8.26
1	87.5	7.01		-72	c.686	248	6.36	71.99	6.78
+	875	7.00		-69	0.685	210	6.38	27.00	-5.67
+	830	6.48		-68	0.684	183	6.42	72.01	2.98
+	835	6.90		- 75	0.684	167	6.49	72.0	1.03
+		6.95		-76	0.685	173	6.49	22.04	1.42
+	84C	6.98		-77	0.686	174	6.49	72.08	1.30
-	845	6.97		-78	0.687	160	6.49	7247	0.00
1	850			-80	0.690	177	6.49	22.56	0.00
-	855	6.97	-	-79	0.685	156	6.44	23.24	0.52
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Sa	ampled By:		55'	Well	Well Diameter / Type: 2" PVC				
D	epth of Well (ft)		18.05		V	Vater Column (	ft):	9.37	
D	epth to Water(ft	):	8.68		Volume of W	Vater in Well (g	yal) 1.52		
	Depth to Product		_	Vo	olume of Wate	r to Remove (g	al):	4.58	
	well diame	eter:	1	in /2	in 4	in 6	in 8	in	
	gallons per		0	041 (0.	163 ) 0.	653	469 2	611	
	Start Purging:		1252			Purge R	tate: 150	m/mir	
	End Purging:	-	1357		Volume of Wa	iter Removed (	gal): 4	gal	
	Method of Purge	. –	ocri		М	ethod of Sampl	ling: low-flow		
				no odor	, some s	sediment	r		
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	Time	DTW	Flow Rate		Conductivity	Turbidity	pR		Dissolved Or
					m v m - v m	NTU	SU	C F	mg/L
		n	ml/min	νων (Vm 01 -λ+)	mS/m - S/m (w/in 3%)	NTU (w/m %10)	SU (+/- 01)	(w/in 3%)	mg/L (w/in 10%)
	1255			(+/- 10 mV)	(w/in 3%)				
	1255	8.74	150	(+/-,10 mV) - 141	(w/in 3%)	(w/m %10)	(+/-01)	(w/in 3%)	(w/in 10%)
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Depth of	Well (ft):	_ 19.7	1			ACCUTATION OF			
	Water(ft):	8.77			Water Colum				
	Product (ft):			Volume of Water in Well (gal) 1.78  Volume of Water to Remove (gal): 5.34					
w	ell diameter:		1 in	1			5.34		
gal	lons per foot		0.041	( 2 in 0 163 )	4 in	6 in	8 in		
Start Purg	ing:	1112	1112						
End Purgi	ng:	1200		Volume of	Water Removed		2 gal		
Method of	Purge:	· per:		voiding of		npling: low-flow	7		
		cloudy, c.	ifur.						
Physical A Comments	ppearance/	Ocean	odor, se	ome sedime	nt				
Samples C	ollected	Cartas							
(analyses / no		Sa Coc.			P. C.				
	Time:	1220			Labor	ratory: Alol	10		
Field Many					·	- 4 lipi	lu .		
Field Meas	DTW	Flow Rate	ORP	Conductivity	Turbidity	pH	Temperature	Dissolved O <sub>2</sub>	
	u	ml/min	mV	mS/m - S/m	UTV	su	C F	mg/L	
1115	4		(+/- 10 mV)	(w/in 3%)	(w/m %10)	(+4.01)	(w/in 3%)	(w/in 10%)	
1117	9.08	150	-133	1.43	98.5	7.63	24-94	0.31	
1122	908	150	-138	1.46	96.0	7.42	22.70	0.02	
1127	19.05	150	-138	1.47	94.3	7.28	21.98	0-00	
1132	1905	150	-139	149	98.6	7.16	21.55	000	
1137	9.04	150	-/39	1.50	90.6	7.06	21.23	000	
1142	9.03	150	-140	1.50	94.0	7.04	20.94	0.05	
1147	904	150	-141	1.51	964	7.00	20.51	0.00	
1152	9.05	150	-144	1.51	93.9	7.03	20.45	0.00	
1157	9.06	150	-142	1.52	117	6.97	20.31	0.00	
1202	906	150	-141	1.52	127	6.95	20.21	0.00	
1207	9.07	150	- 140	1.52	130	6.90	20.19	0.00	
1212	9.07	150	-140	1.53	129	6.83	20 27	0-00	
1217	9.07	150	- 144	1153	126	6.87	20.46	0.00	

tr Location:	5-33 201 VA	Log Is	and City, 1	Projection	duber. Co	87.000440	
Vell No:	81-WM	Purge	Weather Water Disposa	clarate	70°F		
Sampled By:	BU	Well	Diameter / Type	a 1" sch	edule 40	No	
Depth of Well (ft):	14.20		W	ater Column (fl	):	7.58	
Depth to Water(ft):	6.62		Volume of W	ater in Well (ge	1)	0.31	
Depth to Product (ft):	NP		olume of Water	to Remove (gn	)):	0.93	
well diameter: gailous per foot:	(0,0		in 4			in 611	
Start Purging.	830			Purge Ra	ite:   50	om/mn	
End Purging	900		Volume of Wa	ter Removed (g	al): <	70	
Method of Purge:	low-flow		M	ethod of Sampli	ing: low-flow		
Physical Appearance/ Comments:	clear some	sedime	4				
	TO TO	10	Fo				
Samples Collected: (analyses no bottles)	tull ICL	1 375	+ EC				
	Full ICL	00	+ EG	Labora	tory ;	Alpha	
(analyses no bottles)  Time:  Field Measurements:			Conductivity	Labora	tory :	Alpho	Dissolved O <sub>1</sub>
(analyses no bottles) Time:	Flow Rate	00	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	OC	Conductivity	Turbidity	pH	Temperature	
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.
(analyses no bottles)  Time:  Field Measurements:  Time DTW	Flow Rate	ORF mV	Conductivity mS/m - S/m	Turbidity NTU	pit SU	Temperature	mg1.

			Well Samp	ding Data Fo				1
ent)		1015th LI	CLLC	1	Pyojec	t Numbert	2887.0004	100
Location:	3	-33 50H	flye long	Island (M	y NY			March decrements (NAM)
all No		MV-20	1	Weath	er: Sway	.75°F		
ite:	10450	8/6/21	Purg	e Water Dispos	ial: Devh	1		o san processor and san
mpled By:	-	BV	Historians .	Diameter / Ty	1 1/	40 NO	w prepar	rck Scree
opth of Well (ft)		12.09		,	Water Column	(fi):	6.94	
epth to Water(f)	(greate	5.15	incopropia		Vater in Well (		0.28	
epth to Product	Cannal	NP	- V	folume of Wate			0.85	water the control of
well diam	-					6 in	8 in	
gallons per		- /		19 111		469	2.611	
tart Purging:		1440			Purge	Rate: 15	ant/ma	
and Purging:	stor	1500	DESCRIPTION .	Volume of W	ater Removed	(gal):	6 90	
dethod of Purgi	):	lon-flow		N	tethod of Samp	pling: low-flow	w /	
		. 11						
Physical Appear	rance/	grey sill	7	CAMPAGE CONTRACTOR OF		THE RESERVE TO BE SHOWN THE PARTY OF THE PAR	CHICAGO CONTRACTOR CONTRACTOR CONTRACTOR	
		11	/	and the same of th		MONEY SHOW SHOW SHOULD SHOW SHOW SHOW SHOW SHOW SHOW SHOW SHOW		QUESTION STERRIS DESCRIPTION
Comments:		Contraction of the San San Contract of San						
Samples Collec	100	Full ICL	1975 r	=0	INCOMES CONCURSION NAMES OF THE PERSON NAMES O			
Samples Collec	100	Chapter and Australian Street					Alsh	
Comments: Samples Collect (analyses / no bet	100	Full TCL 150			Labor	atory :	Alpha	
Samples Collection (analyses / no. bet	(ime:	150	PO				Temperature	Dissolved C
Samples Collectionalyses / no. bet	(ime:	Chapter and Australian Street		Canductivity m8/m · S/m	Labor Turbidity NTU	pB sU		mg4.
Samples Collec (analyses / no bet	(ime:	50	ORF	Conductivity m8/m - 8/m (w/m 3%)	Turbidity NTU (w/in %10)	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 10%)
Samples Collec (analyses / no bet	tles) (ime: pmentst prw ft	50	ORF mV	Conductivity m8/m - 8/m	Turbidity NTU (19/in %10) 750	pit SU	C <sub>q</sub> = 8 <sup>-p</sup>	mg/i.
Samples Collectionallyses / no bet	(ime:	50	ORF mV (10 mV)	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (w/in %10)	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 1059
Samples Collection analyses / no bet Tield Measure Time	tles) (ime: pmentst prw ft	Flow Hare michtin	ORF mV (12-10 mV) + 8	Conductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd: (win 10%
Samples Collectionallyses / no better field Measure Time  14 40  1445  1456	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 10%)
Samples Collectionallyses / no bet Field Measure Time  1440  1445	tiles) (time: ements:  prw it	Flow Rate mi/min	00 08r mV (12 10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 10%)
Samples Collectionallyses / no better field Measure Time  14 40  1445  1456	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 1059
Samples Collection of the Coll	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 10%)
Samples Collection (analyses / no better field Measure Time	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd. (win 10%)
Samples Collection (analyses / no better field Measure Time)  1440 1445 1456 1455	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd: (win 10%
Samples Collection (analyses / no better field Measure Time)  1440 1445 1456 1455	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (19/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	(w/m 10%
Samples Collection (analyses / no better field Measure Time)  1440 1445 1456 1455	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (w/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd: (win 10%
Samples Collection (analyses / no better field Measure Time)  1440 1445 1456 1455	rites)  (ime:  prive it	Flow Rate mi/min	ORF mV (10 mV) + 8	Canductivity m8/m - 8/m (w/m 3%) 0.265	Turbidity NTU (w/in %10) 750	pit SU (+≤0.1)	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mgd: (win 10%
Samples Collection (analyses / no better field Measure Time)  1440 1445 1456 1455	rites)  (ime:  prive it	Flow Rate ml/min	ORF my (=== 10 my) + 8 1	Conductivity m8/m · 8/m (w/m 3%) 0.265	Turbidity NTU (10/10 %10) 750 968	plk stu (r4.01) 5.83	Temperature C <sup>2</sup> - 8 <sup>15</sup> (w/in 3%)	mg/1. (w/m 10%) 9.85

Service Co.

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28491-68

Client:		504,50	TOI	10				
Site Locatio	n:	2-33 5	A Are Lo	o Island (	EL NY Pr	aject Numbe	r: 2887.000	4/000
Well No:		_MW-		7	1000	1 70	-	
Date:		816	-			cor, 73°		
Sampled By:		55	100	Purge Water D	- Demokratian -	)tum		
Depth of Wei	B va.	12.1	. 12	Well Diameter	/ Type:			
Depth to Wat					Water Colum	nn (ft):	5.5	5
Depth to Prox		8.0	5	Volume	of Water in We	ll (gal)	0.2	3
			_	Volume of V	Vater to Remove	e (gal):	0.6	8
	liameter;		1 in	(Rin)	4 in	6 in	8 in	
galions	per foot		0.041	(0/63)	0.653	1.469	2.611	
Start Purging		1440		7	Purse	Rate:	50 ml/mr	
End Purging:		1450	)	Volume of	Water Removed		< 10	
Method of Pu	rge:	Peri			Method of Sam	-	170	
Physical Appl Comments:	earance/	Arteron	Sed a		1			
Samples Coile		Wort	param	years	I run di	M, 50	mpling	
Field Measur	Time:	14:59	5		Labora	atory:/	A/pha	
Time	DTW	Flow Rate	ORP	Conductivity	Turbidity	-19		
	A	ml/min	mV	mS/m - S/m	NTU	pH SU	Temperature C' F'	Dissolved O <sub>2</sub> mg/L
	_	T	(+/- 10 mV)	(w/in 3%)	(w/m %10)	(+1.01)	(w/in 3%)	(w/in 10%)
		-						
4.8						18.7	, , ,	14.7/11
7.00	e de Grande				1			
-					100000	1.124		
							1	

ROUX ASSOCIATES, INC.

	Well Sampling Data Form  50th 15th LTC LLC Project Number: 2887,0004 4000										
Client: 50th +5th LIC				LC .	Pr	oject Number:	7887.00	04 1000			
Client:		2-33 5	TOM Are. 1	one Island	Oly, N	<u> </u>					
Site Los	cation.	MW-	75	7	Veather:	Junny 7	5°F				
Well No	X	8/6/	The state of the s	Purge Water D		um /					
Date:		AV	<u>C1</u>	Well Diameter	116	040 N					
Sampled	I By:	- 0.		Water Column (ft):			10.72				
Depth of	Well (ft):	18.3	The second second	Maluma	of Water in We		ا الله	74_			
	Water(ft):	7.60 NP	193		Vater to Remov		5.24				
Depth to	Product (ft):	-NI		0	4 in	6 in	8 in				
	ell diameter:		1 in	(2 in )	0.653	1 469	2.611				
go	flons per foot:	1105			Pura	e Rate:	50 ml/mm				
Start Purp	ging:	1205		Volume of	Water Remove		590				
End Purg		bw-flow		Volume of		npling: low-flo	w				
Method o	f Purge:	1									
Physical /	Appearance/	cleal									
Samples C	'ollected:	Full TO	L/P375	- EC							
(analyses / n		[44]									
	Time:		205		Labor	ratory:	Altho				
Field Mea	surements:										
Time	DTW	Flow Rate	ORP	Conductivity	Turbidity	pR	Temperature Co. F.	Dissolved O <sub>2</sub>			
	ft.	ml/min.	mV	mS/m - S/m (w/in 3%)	(w/in %10)	(+/-01)	(w/in 3%)	mg/L (w/in 10%)			
1105	7.60		1-98	1.4	80.2	6.17	70.74	33.42			
1110	796		-102	1,40	48.0	6.10	20.70	1.37			
1115	7.92		-103	1,40	43.1	6.09	20.83	0.00			
1170	7,91		-107	1.40	76.3	6.08	20.84	0.00			
1/25	7.90		-111	1.38	105.7	6.05	20.93	0.00			
1130	7.89		-114	1.38	107.2	6.03	21,02	0.00			
1135	7.93		-118	1.39	142	6.03	20.62	0.00			
1140	7.91		-123	1.39	127	6.0	20.53	0.00			
1145	7.89		-124	1.39	119	6.01	20.42	0.00			
1150	7.91		-127	1.39	101	5.99	20.35	0.00			
1155	7.91		-128	1,40	70.8	5.97	20.35	0.00			
1700	7.90		-129	1.40	60.2	5.98	20.29	0.00			
205	7.91		-131	1.40	49.8	5.96	20.32	0.00			
						7.10	10.70	0.0 0			
Acuty.	MEDITATES NO						1				

				Well Salus	oning Data 1	A THE			
	Client:	50m+5th L	ICLL	<u>C</u> .	Project	Number: 28	87.00c4 /k	200	
9	Site Location:	-	2-33 5cm 1	lve, Lor,	Esland City	NY			
	Well No:		Mv-26		Weath	er Sunny	,75°F		
	Date:		8/6/2	Purg	e Water Dispos				
	Sampled By:	•	81	Wel	Diameter / Ty	pe: 2º Sch	40 PVC		
-	Depth of Well (	ft):	18.16		٧	Vater Column (f	n):	9.35	
	Depth to Water	(n):	8.81		Volume of V	Vater in Well (g	al)	1.52	
	Depth to Produc	et (ft):	NP	_ '	olume of Water	r to Remove (ga	al):	4.57	
	well dias					in 6		în	
	gallons pe	er foot:		041	0	653 1.4		611	
	Start Purging:		1245	_		Purge R	HEAD PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	mt/mm	
	End Purging:		1340	_		iter Removed (g		yal	***************************************
	Physical Appearance/ Comments:				M	ethod of Sampl	ing: low-flow		
	Samples College	cted	Full Tal	18375	ECs			The second second	
	(analyses / so bo	ttles)							
		Time	1340			Laborat	iory:	110ha	
	Field Measur	ements							
	Tleng	DTW	Flow Rate	ORF	Conductivity	Turbidity	Bq		Dissolved O <sub>7</sub>
		n	mianin	mV (** 10 mV)	(w/in 3%)	NTU (win %10)	(+60.1)	Co . Fo	mg/L
	1245	8.8	-	-99	1.65	63.5	5.86	20.46	657
	1250	8.74		-115	1.03	80.9	5.84	11.05	30.0
	1755	3.77		-118	1.03	75.5	5.84	20,52	9.67
	1300	8.75		-122	1.03	66.2	5.86	20.89	10,74
	1305	8.74		-125	1,03	63.4	5.88	5005	9.01
	1310	8.74		-175	1,04	68.53	5.88	19.05	8.35
	1315	8.74		-127	1.04	61.47	5.87	14.05	8,0
	1320	8.75		-158	1.04	61.11	5.88	20.15	
	1325	976	A CONTRACT OF STREET	-129	1.04	51.32	5.87 5.88 5.88	10.15	7.67
	1330	8.76	and the second s	-128	1.04	49.0	5.88	21.03	6.72
	1335	8.74		-158	1.04	46.9	5.88	2 1.00	6.55
	1340	8.74		-120	1.09	149.0	5.88	21.06	6.53
-	and the same	and the state of t		Water Street Street		The second second second			
		de receive	NAME OF TAXABLE PARTY.	-	THE PERSON NAMED IN				
									NAME AND ADDRESS OF THE OWNER, WHEN

HOUX ARBONIATES, INC.

### Remedial Investigation Report Former FO Pierce Company 2-33 50<sup>th</sup> Avenue, Long Island City, New York

### **APPENDIX K**

Soil Vapor Sampling Forms

2887.0004Y114/CVRS ROUX

Soil Vapor Sampling Form	C	1/11	
2-33 50th Avenue		V-11	
Long Island City, New York			
7/22/21 700			
Date: 11 7	war glad distance yet		
Weather: Sunny	T-0 7-9 /30 91	-	
Temperature (Start/End): 69°P / 82°F Humidity (Start/	here and an investment of the second of the second	_	
Wind Magnitude (Sart/End): 6 m/h / 5mh Wind Direction (Start/	Annual Section		
Precipitation (Start	(End) _ / _	-	
Sampling Team: Byllat VRICATIONO AN			
Sampling Location: External Webern planty area model P			Efficiency.
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, et	tc. and what type of	basements ar	e present)
Calland , Edoled , Call .			
Prior to commencing the GeoProbe activity, ensure that all the rods were proper	rly deconed and a new	disposable tip	is present at the
end of the rods (if applicable			
Calibrate helium detection me	eter		
V .			
Utility Clearance Completed: 105			
Sampling Depth: 3 feet below land surfa	ice		
Sealed at land surface/rod end: (e)			
Purge Rate: 0.2 [ MM Must be less than 0.2			
Purge Time: note : Assuming 0.17	7" I.D. tubing purge	15 sec. for ev	very 10 ft of tubir
Hefium Rate at enclosure: 710,000 pm		~	
Helium Rate from sample tubing: O MM Is this rate <20% of the	rate at the enclosure	(Y)/N	_
If the Helium readings have a greater ratio than 20% the seals should be re-	checked and the trace	er gas should b	e reapplied.
is the regular recently have a greater rane train to the treate event to		3	
Once the tracer gas screening procedures are completed and no short-circuitin	ng is determined to be	present at the	location the soil
vapor sample can be collected in a lab certified clean summa c			
Finishing pressure should be within 0.5	5 - 4 in of Hg		
to the Survey Coninter Contilled Class and within the proper helding time 2	(NI)		
Is the Summa Canister Certified Clean and within the proper holding time?	(Y)/ N		
Starting Pressure: -30.08	in. of Hg		1
Starting Time: 717		Date:	7/22/21
Ending Time: 1520		Date:	7/22/2
Ending Pressure: 76.37	in. of Hg		
1.			
to a transport of the t			
Summa Canister Identification #: 3014			
Summa Canister Identification #: 3014  Flow Regulator ID # 01383			_
Flow Regulator ID # 01383 Sample ID # 5V-1	Time	1520	
Flow Regulator ID # 01383  Sample ID # 5V-11  Analysis TO-15 VOC	Time	1520	-
Flow Regulator ID # 01383 Sample ID # 5V-1	Time	1520	

Soil Vapor Sampling Form	(1) 10
2-33 50th Avenue	51-12
Long Island City, New York	
Date: 7/77/7 Time: 700	
Weather: Swnny	
Temperature (Start/End): 69°F / 82°F Humidity (Start/End): 70°/0/39°/	
Wind Magnitude (Sart/End): 6 mm / 5 mm Wind Direction (Start/End): NW/ NW	
Barometric Pressure (Start/End): 3005 Hz /30.05 Precipitation (Start/End) -/-	
0.11 10.1	
Sampling Team: Byella + V Ridglano	
Sampling Location: Exercer Western Group Arentender South	
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of ba	sements are present)
unlowed exposed ext	
70000	
Prior to commencing the GeoProbe activity, ensure that all the rods were properly deconed and a new d	isposable tip is present at the
end of the rods (if applicable).	
/ Calibrate helium detection meter	
Calibrate rielium detection meter	
Utility Clearance Completed:	
Sampling Depth: 3 feet below land surface	
Sealed at land surface/rod end:	
Purge Rate: 0.7 L/m/ Must be less than 0.2 L/min	
Purge Time: note : Assuming 0.17" I.D. tubing purge 15	sec. for every 10 ft of tubir
Helium Rate at enclosure: 7 0,000 ppm	
Helium Rate from sample tubing: Opm Is this rate <20% of the rate at the enclosure	(Y) N
	9
If the Helium readings have a greater ratio than 20% the seals should be rechecked and the tracer	gas should be reapplied.
Once the tracer gas screening procedures are completed and no short-circuiting is determined to be pr	esent at the location the soil
vapor sample can be collected in a lab certified clean summa canister at a rate less that	in 0.2 L/min.
Finishing pressure should be within 0.5 - 4 in of Hg	
A Section of the second district the second district time 2	
Is the Summa Canister Certified Clean and within the proper holding time?	
Starting Pressure: 729.88 in. of Hg	1
Starting Time: 720	Date: 7/77(7)
Ending Time: 1573	Date: 7/27/2
Ending Pressure: -6.65 in. of Hg	
Summa Canister Identification #:   576	
Flow Regulator ID # 01279	The same of the sa
Sample ID # SV-12 Time	1523
Analysis TQ-15 VCCs	
Laboratory Apha	
Likilor Tikilor	
***	

	- 11-
2-33 50th Avenue	5V-15
Long Island City, New York	
7-0	
Date: 7/22/2 Time: 700	
Weather: Swiny	
Temperature (Start/End): 69.F / 82°F Humidity (Start/End): 70	10/39%
Wind Magnitude (Sart/End): 6mth /5mgh Wind Direction (Start/End): No	Control of the Contro
Barometric Pressure (Start/End): 30.05"Ho /30.05"Ho Precipitation (Start/End)	The state of the s
10 10	
Sampling Team: Byelat V Kichlano	
Sampling Location. Expense Worker Gross Extends Politing Lat	
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and wh	at type of basements are present)
paved asphalt	
the ton street.	
Prior to commencing the GeoProbe activity, ensure that all the rods were properly deconed	and a new disposable tip is present at the
end of the rods (if applicable).	
Calibrate helium detection meter	
V	
Utility Clearance Completed:	
Sampling Depth: 3 feet below land surface	
Sealed at land surface/rod end:	
Purge Rate: 0.2 L/mM Must be less than 0.2 L/min	
Purge Time: note : Assuming 0.17" I.D. tub	ing purge 15 sec. for every 10 ft of tubin
Helium Rate at enclosure: > 10,000 ppm	
Helium Rate from sample tubing: () pm Is this rate <20% of the rate at the	enclosure (Ý)/N
Helium Rate from sample tubing: O MM Is this rate <20% of the rate at the	e enclosure <u>(V)</u> /N
Helium Rate from sample tubing: Is this rate <20% of the rate at the If the Helium readings have a greater ratio than 20% the seals should be rechecked a	
	nd the tracer gas should be reapplied.
If the Helium readings have a greater ratio than 20% the seals should be rechecked a	nd the tracer gas should be reapplied.
Once the tracer gas screening procedures are completed and no short-circuiting is determ vapor sample can be collected in a lab certified clean summa canister at	nd the tracer gas should be reapplied.  nined to be present at the location the soil a rate less than 0.2 L/min.
If the Helium readings have a greater ratio than 20% the seals should be rechecked a  Once the tracer gas screening procedures are completed and no short-circuiting is determined.	nd the tracer gas should be reapplied.  nined to be present at the location the soil a rate less than 0.2 L/min.
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the control of the seals should be rechecked as the control of the seals shoul	nd the tracer gas should be reapplied.  nined to be present at the location the soil a rate less than 0.2 L/min.
Once the tracer gas screening procedures are completed and no short-circuiting is determ vapor sample can be collected in a lab certified clean summa canister at	nd the tracer gas should be reapplied.  nined to be present at the location the soil a rate less than 0.2 L/min.
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the control of the seals should be rechecked as the control of the seals shoul	nd the tracer gas should be reapplied.  nined to be present at the location the soil a rate less than 0.2 L/min.
Once the tracer gas screening procedures are completed and no short-circuiting is determ vapor sample can be collected in a lab certified clean summa canister at  Finishing pressure should be within 0.5 - 4 in of H  Is the Summa Canister Certified Clean and within the proper holding time?	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the conference of the co	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the conference of the co	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7777
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the collected in a lab certified clean summa canister at Finishing pressure should be within 0.5 - 4 in of His the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure: 30.12 in. of Starting Time: 151	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/12/2
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the collected in a lab certified clean summa canister at Finishing pressure should be within 0.5 - 4 in of His the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure: 30.12 in. of Starting Time: 151	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7777
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the vapor sample can be collected in a lab certified clean summa canister at Finishing pressure should be within 0.5 - 4 in of His the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure: 70.17 in. of Starting Time: 70.6 Ending Time: 15.1 Ending Pressure: -5.92 in. of Lending Pressure: -5.92 in. of Lend	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/12/2
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the collected in a lab certified clean summa canister at Finishing pressure should be within 0.5 - 4 in of His the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure: 70.17 in. of Starting Time: 70.6 Ending Time: 1511 Ending Pressure: -5.92 in. of Summa Canister Identification #: 1647	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/12/2
Once the tracer gas screening procedures are completed and no short-circuiting is determ vapor sample can be collected in a lab certified clean summa canister at Finishing pressure should be within 0.5 - 4 in of H Is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:	non the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/22/21  Date: 7/22/21
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the seals should be rechecked at the same of the tracer gas screening procedures are completed and no short-circuiting is determined to the same of th	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/72/2
Once the tracer gas screening procedures are completed and no short-circuiting is determined to a lab certified clean summa canister at the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure: 706 Ending Time: 706 Ending Time: 151 Ending Pressure: -5.92  Summa Canister Identification #: 1642 Flow Regulator ID # 01300 Sample ID # 5V-15 Analysis	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/22/21  Date: 7/22/21
Once the tracer gas screening procedures are completed and no short-circuiting is determined to the seals should be rechecked at the same of the tracer gas screening procedures are completed and no short-circuiting is determined to the same of th	not the tracer gas should be reapplied.  Inined to be present at the location the soil a rate less than 0.2 L/min.  If Hg  Date: 7/22/21  Date: 7/22/21

Soil Vapor Sampling Form	200000000000000000000000000000000000000
2-33 50th Avenue	+DUP_SV_0728202
Long Island City, New York	
Date: 728 25 Time: 0645 Weather: 45 Anny Time: 0645	and): \$30/0
Temperature (Start/End): 70-80°F Humidity (Start/E	
Wind Magnitude (Sart/End): 7 M Wind Direction (Start/Education Start/Education	
Barometric Pressure (Start/End): 29,9714Ho Precipitation (Start/I	illu)
Sampling Team: Dan Mispreding	
Sampling Location: SV-M	
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc	and what type of basements are present)
SW in it de building hallvan	
2 Margon al Maria	
Prior to commencing the GeoProbe activity, ensure that all the rods were properlined of the rods (if applicable)	y deconed and a new disposable tip is present at the
Calibrate helium detection me	ter
Utility Clearance Completed: \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
Sampling Depth: 3 feet below land surfa-	ce
Sealed at land surface/rod end:	
Purge Rate: 0.2 Limin Must be less than 0.2	
Purge Time: note : Assuming 0.17	"I.D. tubing purge 15 sec. for every 10 ft of tubin
Helium Rate at enclosure: 4550 DDM	
Helium Rate from sample tubing: Sthis rate <20% of the	rate at the enclosureN
	to the dead the traces are should be exemplied
If the Helium readings have a greater ratio than 20% the seals should be re	checked and the tracer gas should be reapplied.
	is determined to be present at the location the soil
Once the tracer gas screening procedures are completed and no short-circuiting	ig is determined to be present at the location the son
and sample say he collected in a lab certified clean summar	canister at a rate less than 0.2 L/min.
vapor sample can be collected in a lab certified clean summa of	canister at a rate less than 0.2 L/min.
vapor sample can be collected in a lab certified clean summa of	canister at a rate less than 0.2 Dmin.
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5	canister at a rate less than 0.2 Dmin.
vapor sample can be collected in a lab certified clean summa of	canister at a rate less than 0.2 Dmin.
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5	5 - 4 in of Hg  Y N
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?	5 - 4 in of Hg  Y N
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:	canister at a rate less than 0.2 Dmin.
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:	in of Hg  N  in of Hg  DVP: -30.25 in of Hg
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:	in. of Hg  Dup: 30.25 in of lg  Date: 7-28-21
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:	in. of Hg  Dup: 30.25 in of Hg  Date: 7 39 31
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:	in. of Hg  Dup: 30.25 in of lg  Date: 7-28-21
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 as the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:  Summa Canister Identification #:	in. of Hg  Dup: 30.25 in of lg  Date: 7-28-21
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:  Summa Canister Identification #:  Flow Regulator ID #	in of Hg  In of Hg  Date: 7-28-21  In of Hg  Date: 7-28-21  Date: 7-28-21  Date: 7-28-21  Date: 7-28-21
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:  Summa Canister Identification #:  Flow Regulator ID #  Sample ID #	in. of Hg  Dup: 30.25 in of lg  Date: 7-28-21
vapor sample can be collected in a lab certified clean summa of Finishing pressure should be within 0.5 is the Summa Canister Certified Clean and within the proper holding time?  Starting Pressure:  Starting Time:  Ending Time:  Ending Pressure:  Summa Canister Identification #:  Flow Regulator ID #	in of Hg  In of Hg  Date: 7-28-21  In of Hg  Date: 7-28-21  Date: 7-28-21  Date: 7-28-21  Date: 7-28-21

Soil Vapor Sampling Form	
2-33 50th Avenue	
Long Island City, New York	
7-2-1	
Date: 7-28-2/ Time: 0645	
Weather: Sunna	
Temperature (Start/End): 70-2007 Humidity (Start/E	
Wind Magnitude (Sart/End): Tm. Dh Wind Direction (Start/E	
Barometric Pressure (Start/End): 29,97"Ha Precipitation (Start/E	End) O
r 1. 7.	
Sampling Team: Dan Mixed 18	
Sampling Location: 57-19	t t tt - fleinant - manth
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc	c. and what type of basements are present)
Fast I rich byilding	
Prior to commencing the GeoProbe activity, ensure that all the rods were properly	ly decored and a new disposable tip is present at the
end of the rods (if applicable)	).
Calibrate helium detection met	ter
Utility Clearance Completed:	
Sampling Depth: 3 feet below land surface	ce
Sealed at land surface/rod end: Yes	
Purge Rate: 0.2 Vinia Must be less than 0.2	L/min
	" I.D. tubing purge 15 sec. for every 10 ft of tub
Helium Rate at enclosure: 3 156 10m	
Helium Rate from sample tubing:   Is this rate <20% of the	rate at the enclosure YVN
If the Helium readings have a greater ratio than 20% the seals should be rec	checked and the tracer gas should be reapplied.
Once the tracer gas screening procedures are completed and no short-circuiting	ng is determined to be present at the location the soil
vapor sample can be collected in a lab certified clean summa co	canister at a rate less than 0.2 L/min.
Finishing pressure should be within 0.5	o - 4 in of Hg
Is the Summa Canister Certified Clean and within the proper holding time ?	(V/N
is the Summa Canister Certified Clean and within the proper rolding time is	U/N
22.21	
Starting Pressure: -24.54	in, of Hg
Starting Time: 0630	Date: 7 20 71
Ending Time: 1422	Date: T-ZS-Z
Ending Pressure: - パンリ	in. of Hg
Summa Canister Identification #: 6/3	
Flow Regulator ID # 0/937	_
Sample ID # SV-19	Time \422
Analysis 1975	and the same of th
The state of the s	
Laboratory Aloho	

SV-21

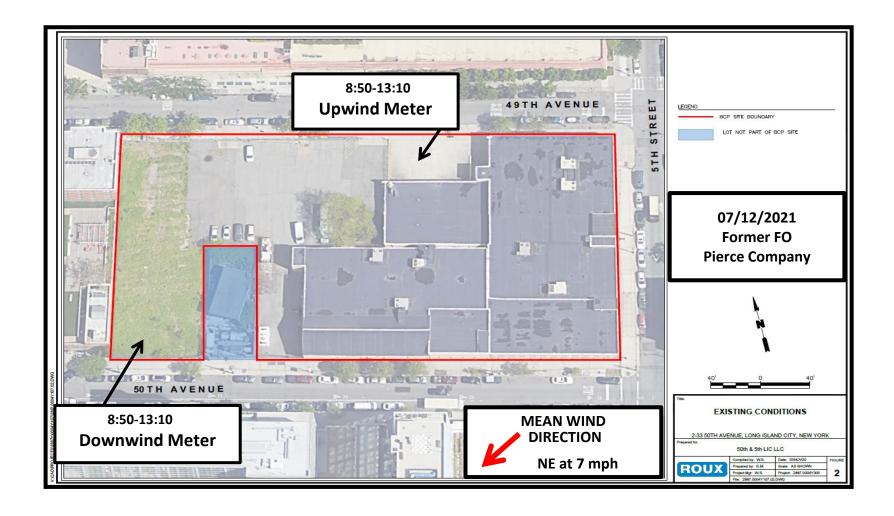
Soil Vapor Sampling Form
2-33 50th Avenue
Long Island City, New York
Date: 7-28-2 Time: 0645
Weather:
Temperature (Start/End): 70 -900 Humidity (Start/End): 93010
Wind Maria Committee Commit
Barometric Pressure (Start/End): Wind Direction (Start/End): NNE  Precipitation (Start/End) O
Precipitation (State End)
Sampling Team: Day Missinghias
Sampling Location: (\ \?\)
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
NE inside building
THE TAILED
Prior to commencing the GeoProbe activity, ensure that all the rods were properly deconed and a new disposable tip is present at the
end of the rods (if applicable).
Calibrate helium detection meter
Utility Clearance Completed: Yes
Sampling Depth: feet below land surface
Sealed at land surface/rod end: Y &
Purge Rate: 0.2 Linin Must be less than 0.2 Limin
Purge Time:note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tul
Helium Rate at enclosure: LCCG (An
Helium Rate from sample tubing: Is this rate <20% of the rate at the enclosure Y / N
If the University of the Control of
If the Helium readings have a greater ratio than 20% the seals should be rechecked and the tracer gas should be reapplied.
Once the tracer are personing asset in
Once the tracer gas screening procedures are completed and no short-circuiting is determined to be present at the location the soil vapor sample can be collected in a lab certified clean summa canister at a rate less than 0.2 L/min.
to be solved in a lab certified clean suffina canister at a rate less than 0.2 L/min.
Finishing pressure should be within 0.5 - 4 in of Hg
Is the Summa Canister Certified Clean and within the proper holding time ?
Starting Pressure: 29 in. of Hg
Station Time G.C.2
Fedire Time VIVOS
Ending Pressure: - 85 in. of Hg
11. 0) rig
Summa Canister Identification #: 2577
Flow Regulator ID # 01659
Compt. ID # (7)1 0
Analysis TO-15
Laboratory Alpha
- when

### Remedial Investigation Report Former FO Pierce Company 2-33 50<sup>th</sup> Avenue, Long Island City, New York

### **APPENDIX L**

**CAMP Data** 

2887.0004Y114/CVRS ROUX



## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Dust

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/12/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Uį	Upwind Downwind		Corrected Downwind	Comments	
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
8:53 AM	0.037	8:53 AM	0.044	0.007	
9:08 AM	0.039	9:08 AM	0.044	0.005	
9:23 AM	0.043	9:23 AM	0.044	0.001	
9:38 AM	0.047	9:38 AM	0.047	0.000	
9:53 AM	0.056	9:53 AM	0.054	-0.002	
10:08 AM	0.061	10:08 AM	0.060	-0.001	
10:23 AM	0.065	10:23 AM	0.061	-0.004	
10:38 AM	0.064	10:38 AM	0.061	-0.003	
10:53 AM	0.063	10:53 AM	0.061	-0.002	
11:08 AM	0.063	11:08 AM	0.070	0.007	
11:23 AM	0.062	11:23 AM	0.062	0.000	
11:38 AM	0.066	11:38 AM	0.070	0.004	
11:53 AM	0.069	11:53 AM	0.077	0.008	
12:08 PM	0.068	12:08 PM	0.071	0.003	
12:23 PM	0.064	12:23 PM	0.066	0.002	
12:38 PM	0.059	12:38 PM	0.060	0.001	
12:53 PM	0.051	12:53 PM	0.059	0.008	
1:08 PM	0.054	1:08 PM	0.050	-0.004	

#### Notes

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - VOC

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/12/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	Upwind		nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average		Comments
Time	(ppm)	Time	(ppm)	(ppm)	
8:54 AM	0.0	8:54 AM	0.0	0.0	
9:09 AM	0.0	9:09 AM	0.0	0.0	
9:24 AM	0.0	9:24 AM	0.0	0.0	
9:39 AM	0.0	9:39 AM	0.0	0.0	
9:54 AM	0.0	9:54 AM	0.0	0.0	
10:09 AM	0.0	10:09 AM	0.0	0.0	
10:24 AM	0.0	10:24 AM	0.0	0.0	
10:39 AM	0.0	10:39 AM	0.0	0.0	
10:54 AM	0.0	10:54 AM	0.0	0.0	
11:09 AM	0.0	11:09 AM	0.0	0.0	
11:24 AM	0.0	11:24 AM	0.0	0.0	
11:39 AM	0.0	11:39 AM	0.0	0.0	
11:54 AM	0.0	11:54 AM	0.0	0.0	
12:09 PM	0.0	12:09 PM	0.0	0.0	
12:24 PM	0.0	12:24 PM	0.0	0.0	
12:39 PM	0.0	12:39 PM	0.0	0.0	
12:54 PM	0.0	12:54 PM	0.0	0.0	
1:09 PM	0.0	1:09 PM	0.0	0.0	

### Notes:

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

# Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Weather

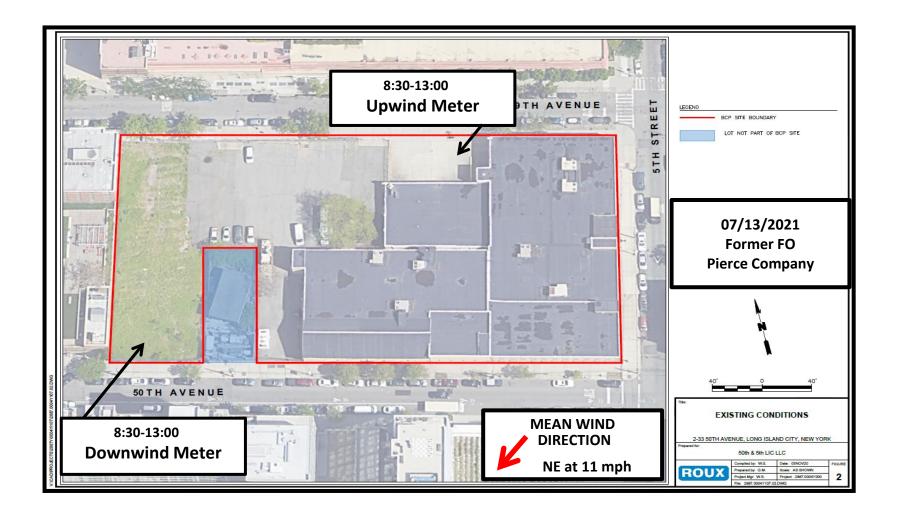
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/12/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
7:51 AM	77 °F	70 °F	79 %	CALM	0 mph	0 mph	30.04 in	0.0 in	Cloudy
8:51 AM	79 °F	71 °F	77 %	NE	6 mph	0 mph	30.04 in	0.0 in	Mostly Cloudy
9:48 AM	79 °F	72 °F	78 %	NE	5 mph	0 mph	30.06 in	0.0 in	Cloudy
9:51 AM	79 °F	71 °F	77 %	NE	5 mph	0 mph	30.06 in	0.0 in	Cloudy
10:51 AM	80 °F	71 °F	74 %	NE	8 mph	0 mph	30.07 in	0.0 in	Mostly Cloudy
11:51 AM	78 °F	70 °F	76 %	ENE	9 mph	0 mph	30.08 in	0.0 in	Cloudy
12:45 PM	81 °F	72 °F	74 %	ENE	9 mph	0 mph	30.08 in	0.0 in	Mostly Cloudy
12:51 PM	81 °F	71 °F	72 %	NE	9 mph	0 mph	30.08 in	0.0 in	Mostly Cloudy
1:51 PM	81 °F	71 °F	72 %	NE	13 mph	0 mph	30.09 in	0.0 in	Partly Cloudy



## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Dust

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/13/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Uį	Upwind Downwind		Corrected Downwind	Comments	
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
8:36 AM	0.036	8:39 AM	0.028	-0.008	
8:51 AM	0.017	8:54 AM	0.018	0.001	
9:06 AM	0.015	9:09 AM	0.017	0.002	
9:21 AM	0.011	9:24 AM	0.010	-0.001	
9:36 AM	0.011	9:39 AM	0.012	0.001	
9:51 AM	0.013	9:54 AM	0.012	-0.001	
10:06 AM	0.014	10:09 AM	0.012	-0.002	
10:21 AM	0.015	10:24 AM	0.012	-0.003	
10:36 AM	0.016	10:39 AM	0.014	-0.002	
10:51 AM	0.018	10:54 AM	0.013	-0.005	
11:06 AM	0.019	11:09 AM	0.019	0.000	
11:21 AM	0.021	11:24 AM	0.019	-0.002	
11:36 AM	0.027	11:39 AM	0.023	-0.004	
11:51 AM	0.029	11:54 AM	0.025	-0.004	
12:06 PM	0.030	12:09 PM	0.030	0.000	
12:21 PM	0.032	12:24 PM	0.029	-0.003	
12:36 PM	0.034	12:39 PM	0.035	0.001	

#### Notes:

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - VOC

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/13/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	Upwind		nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average	VOC Average		VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
8:36 AM	0.0	8:37 AM	0.0	0.0	
8:51 AM	0.0	8:52 AM	0.0	0.0	
9:06 AM	0.0	9:07 AM	0.0	0.0	
9:21 AM	0.0	9:22 AM	0.0	0.0	
9:36 AM	0.0	9:37 AM	0.0	0.0	
9:51 AM	0.0	9:52 AM	0.0	0.0	
10:06 AM	0.0	10:07 AM	0.0	0.0	
10:21 AM	0.0	10:22 AM	0.0	0.0	
10:36 AM	0.0	10:37 AM	0.0	0.0	
10:51 AM	0.0	10:52 AM	0.0	0.0	
11:06 AM	0.1	11:07 AM	0.0	-0.1	
11:21 AM	0.1	11:22 AM	0.0	-0.1	
11:36 AM	0.1	11:37 AM	0.0	-0.1	
11:51 AM	0.1	11:52 AM	0.0	-0.1	
12:06 PM	0.1	12:07 PM	0.0	-0.1	
12:21 PM	0.1	12:22 PM	0.0	-0.1	
12:36 PM	0.1	12:37 PM	0.0	-0.1	
12:51 PM	NR	12:52 PM	0.0	0.0	

### Notes:

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

# Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Weather

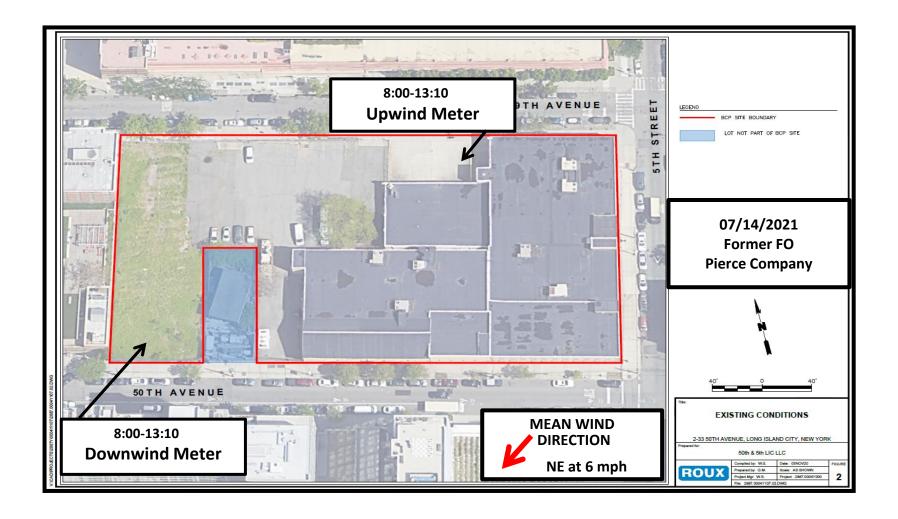
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/13/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
7:51 AM	70 °F	67 °F	90 %	ENE	8 mph	0 mph	30.21 in	0.0 in	Fog
8:15 AM	70 °F	67 °F	90 %	NE	8 mph	0 mph	30.21 in	0.0 in	Cloudy
8:33 AM	70 °F	67 °F	90 %	NE	8 mph	0 mph	30.21 in	0.0 in	Cloudy
8:51 AM	70 °F	66 °F	87 %	NE	8 mph	0 mph	30.22 in	0.0 in	Cloudy
9:51 AM	70 °F	66 °F	87 %	NE	12 mph	0 mph	30.22 in	0.0 in	Cloudy
10:03 AM	70 °F	66 °F	87 %	NE	13 mph	0 mph	30.22 in	0.0 in	Cloudy
10:51 AM	70 °F	66 °F	87 %	ENE	10 mph	0 mph	30.22 in	0.0 in	Cloudy
11:51 AM	71 °F	66 °F	84 %	NE	13 mph	0 mph	30.21 in	0.0 in	Cloudy
12:51 PM	72 °F	66 °F	81 %	NE	13 mph	0 mph	30.21 in	0.0 in	Cloudy
1:28 PM	72 °F	66 °F	81 %	NE	12 mph	0 mph	30.21 in	0.0 in	Cloudy



## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Dust

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/14/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Ul	Upwind Downwind		Corrected Downwind	Comments	
Time	Concentration	Time Concentration		Concentration	Comments
Time	[mg/m3]	Tille	[mg/m3]	[mg/m3]	
8:02 AM	0.038	8:06 AM	0.048	0.010	
8:17 AM	0.036	8:21 AM	0.040	0.004	
8:32 AM	0.034	8:36 AM	0.034	0.000	
8:47 AM	0.034	8:51 AM	0.035	0.001	
9:02 AM	0.037	9:06 AM	0.038	0.001	
9:17 AM	0.043	9:21 AM	0.043	0.000	
9:32 AM	0.046	9:36 AM	0.049	0.003	
9:47 AM	0.044	9:51 AM	0.041	-0.003	
10:02 AM	0.043	10:06 AM	0.039	-0.004	
10:17 AM	0.043	10:21 AM	0.042	-0.001	
10:32 AM	0.049	10:36 AM	0.044	-0.005	
10:47 AM	0.052	10:51 AM	0.043	-0.009	
11:02 AM	0.051	11:06 AM	0.053	0.002	
11:17 AM	0.059	11:21 AM	0.053	-0.006	
11:32 AM	0.061	11:36 AM	0.059	-0.002	
11:47 AM	0.062	11:51 AM	0.055	-0.007	
12:02 PM	0.056	12:06 PM	0.048	-0.008	
12:17 PM	0.052	12:21 PM	0.045	-0.007	
12:32 PM	0.051	12:36 PM	0.041	-0.010	
12:47 PM	0.052	12:51 PM	0.041	-0.011	
1:02 PM	0.049	1:06 PM	0.039	-0.010	

#### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - VOC

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/14/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Upwind		Downwind		Corrected <sup>1</sup> Downwind	Comments	
	VOC Average		VOC Average	VOC Average	Comments	
Time	(ppm)	Time	(ppm)	(ppm)		
8:03 AM	0.0	8:08 AM	0.0	0.0		
8:18 AM	0.0	8:23 AM	0.0	0.0		
8:33 AM	0.0	8:38 AM	0.0	0.0		
8:48 AM	0.0	8:53 AM	0.0	0.0		
9:03 AM	0.1	9:08 AM	0.0	-0.1		
9:18 AM	0.1	9:23 AM	0.0	-0.1		
9:33 AM	0.1	9:38 AM	0.0	-0.1		
9:48 AM	0.1	9:53 AM	0.0	-0.1		
10:03 AM	0.1	10:08 AM	0.0	-0.1		
10:18 AM	0.1	10:23 AM	0.0	-0.1		
10:33 AM	0.1	10:38 AM	0.0	-0.1		
10:48 AM	0.2	10:53 AM	0.0	-0.2		
11:03 AM	0.2	11:08 AM	0.0	-0.2		
11:18 AM	0.2	11:23 AM	0.0	-0.2		
11:33 AM	0.2	11:38 AM	0.0	-0.2		
11:48 AM	0.2	11:53 AM	0.0	-0.2		
12:03 PM	0.3	12:08 PM	0.0	-0.3		
12:18 PM	0.3	12:23 PM	NR	0.3		
12:33 PM	0.3	12:38 PM	NR	0.3		
12:48 PM	0.3	12:53 PM	NR	0.3		
1:03 PM	0.3	1:08 PM	NR	0.3		

#### Notes:

- 1. Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.
- 2. NR = Not Recorded

# Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Weather

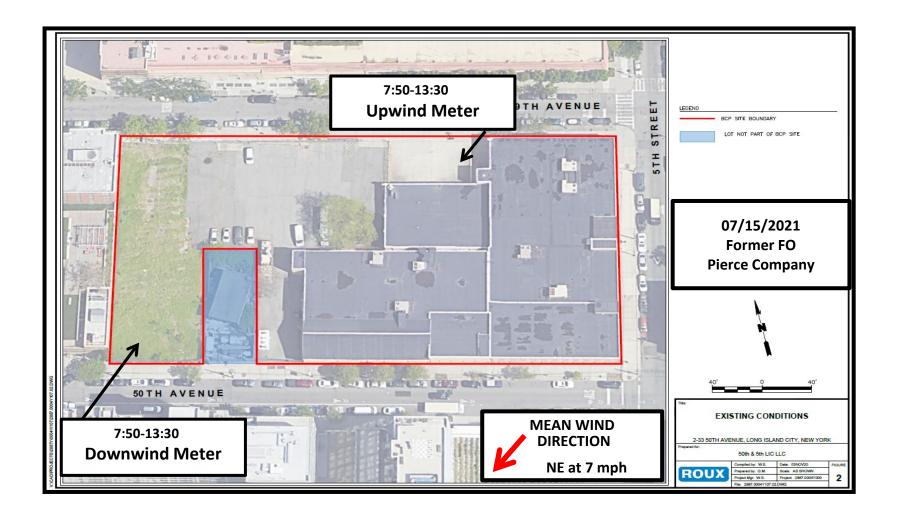
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/14/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
7:51 AM	70 °F	68 °F	93 %	NE	8 mph	0 mph	30.15 in	0.0 in	Fog
8:51 AM	71 °F	68 °F	90 %	NE	7 mph	0 mph	30.16 in	0.0 in	Fog
9:00 AM	71 °F	68 °F	90 %	NE	7 mph	0 mph	30.15 in	0.0 in	Fog
9:48 AM	72 °F	68 °F	88 %	NE	3 mph	0 mph	30.15 in	0.0 in	Fog
9:51 AM	71 °F	68 °F	90 %	NE	5 mph	0 mph	30.15 in	0.0 in	Fog
10:23 AM	72 °F	69 °F	91 %	NE	6 mph	0 mph	30.14 in	0.0 in	Fog
10:45 AM	73 °F	70 °F	88 %	NE	6 mph	0 mph	30.14 in	0.0 in	Haze
10:51 AM	74 °F	69 °F	85 %	NE	6 mph	0 mph	30.14 in	0.0 in	Haze
11:10 AM	75 °F	69 °F	82 %	Е	6 mph	0 mph	30.14 in	0.0 in	Mostly Cloudy
11:51 AM	77 °F	69 °F	76 %	ENE	6 mph	0 mph	30.13 in	0.0 in	Partly Cloudy
12:51 PM	82 °F	70 °F	67 %	ENE	3 mph	0 mph	30.12 in	0.0 in	Partly Cloudy
1:51 PM	85 °F	70 °F	61 %	NE	7 mph	0 mph	30.09 in	0.0 in	Partly Cloudy



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/15/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

U	pwind	Dov	vnwind	Corrected Downwind	Comments
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
7:54 AM	0.023	7:55 AM	0.029	0.006	
8:09 AM	0.019	8:10 AM	0.019	0.000	
8:24 AM	0.018	8:25 AM	0.018	0.000	
8:39 AM	0.023	8:40 AM	0.023	0.000	
8:54 AM	0.024	8:55 AM	0.026	0.002	
9:09 AM	0.023	9:10 AM	0.022	-0.001	
9:24 AM	0.022	9:25 AM	0.018	-0.004	
9:39 AM	0.023	9:40 AM	0.018	-0.005	
9:54 AM	0.020	9:55 AM	0.015	-0.005	
10:09 AM	0.023	10:10 AM	0.017	-0.006	
10:24 AM	0.019	10:25 AM	0.015	-0.004	
10:39 AM	0.023	10:40 AM	0.039	0.016	
10:54 AM	0.023	10:55 AM	0.020	-0.003	
11:09 AM	0.025	11:10 AM	0.023	-0.002	
11:24 AM	0.025	11:25 AM	0.019	-0.006	
11:39 AM	0.025	11:40 AM	0.020	-0.005	
11:54 AM	0.056	11:55 AM	0.065	0.009	
12:09 PM	0.031	12:10 PM	0.025	-0.006	
12:24 PM	0.031	12:25 PM	0.027	-0.004	
12:39 PM	0.031	12:40 PM	0.025	-0.006	
12:54 PM	0.027	12:55 PM	0.022	-0.005	
1:09 PM	0.027	1:10 PM	0.020	-0.007	
1:24 PM	0.028	1:25 PM	0.022	-0.006	

### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/15/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:56 AM	0.0	7:57 AM	0.0	0.0	
8:11 AM	0.0	8:12 AM	0.0	0.0	
8:26 AM	0.0	8:27 AM	0.0	0.0	
8:41 AM	0.0	8:42 AM	0.0	0.0	
8:56 AM	0.0	8:57 AM	0.0	0.0	
9:11 AM	0.0	9:12 AM	0.0	0.0	
9:26 AM	0.0	9:27 AM	0.0	0.0	
9:41 AM	0.0	9:42 AM	0.0	0.0	
9:56 AM	0.0	9:57 AM	0.0	0.0	
10:11 AM	0.0	10:12 AM	0.0	0.0	
10:26 AM	0.0	10:27 AM	0.0	0.0	
10:41 AM	0.0	10:42 AM	0.0	0.0	
10:56 AM	0.0	10:57 AM	0.0	0.0	
11:11 AM	0.0	11:12 AM	0.0	0.0	
11:26 AM	0.0	11:27 AM	0.0	0.0	
11:41 AM	0.0	11:42 AM	0.0	0.0	
11:56 AM	0.0	11:57 AM	0.0	0.0	
12:11 PM	0.0	12:12 PM	0.0	0.0	
12:26 PM	0.0	12:27 PM	0.0	0.0	
12:41 PM	0.0	12:42 PM	0.0	0.0	
12:56 PM	0.0	12:57 PM	0.0	0.0	
1:11 PM	0.0	1:12 PM	0.0	0.0	
1:26 PM	0.0	1:27 PM	0.0	0.0	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

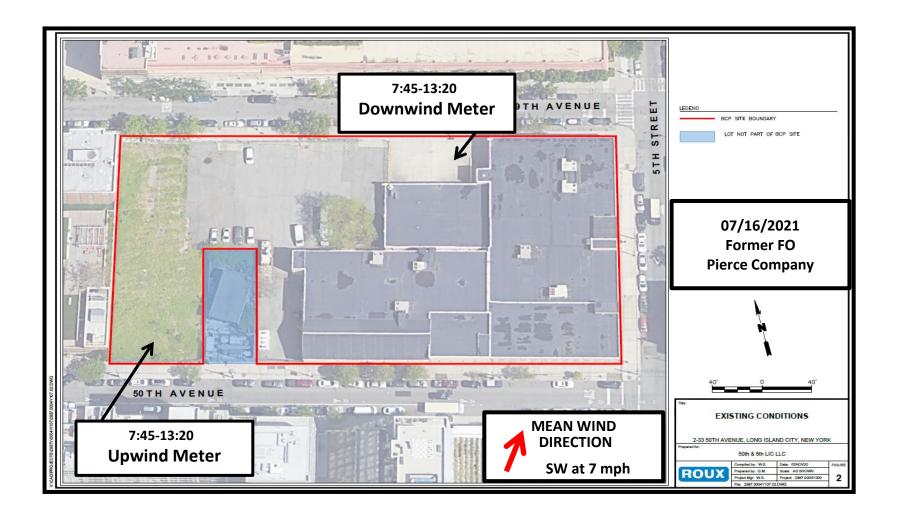
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/15/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	76 °F	66 °F	71 %	Е	3 mph	0 mph	30.09 in	0.0 in	Partly Cloudy
7:51 AM	77 °F	67 °F	71 %	ENE	6 mph	0 mph	30.10 in	0.0 in	Partly Cloudy
8:51 AM	79 °F	67 °F	66 %	NE	6 mph	0 mph	30.10 in	0.0 in	Partly Cloudy
9:51 AM	81 °F	67 °F	62 %	NE	6 mph	0 mph	30.08 in	0.0 in	Mostly Cloudy
10:51 AM	81 °F	68 °F	65 %	NE	8 mph	0 mph	30.08 in	0.0 in	Mostly Cloudy
11:51 AM	84 °F	68 °F	58 %	NE	7 mph	0 mph	30.07 in	0.0 in	Mostly Cloudy
12:51 PM	86 °F	67 °F	53 %	NE	8 mph	0 mph	30.05 in	0.0 in	Mostly Cloudy
1:51 PM	87 °F	67 °F	51 %	NE	9 mph	0 mph	30.04 in	0.0 in	Partly Cloudy



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/16/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

U	pwind	Dov	vnwind	Corrected Downwind	Comments
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
7:48 AM	0.057	8:53 AM	0.044	-0.013	
8:03 AM	0.062	9:08 AM	0.044	-0.018	
8:18 AM	0.053	9:23 AM	0.044	-0.009	
8:33 AM	0.067	9:38 AM	0.047	-0.020	
8:48 AM	0.054	9:53 AM	0.054	0.000	
9:03 AM	0.053	10:08 AM	0.060	0.007	
9:18 AM	0.057	10:23 AM	0.061	0.004	
9:33 AM	0.058	10:38 AM	0.061	0.003	
9:48 AM	0.059	10:53 AM	0.061	0.002	
10:03 AM	0.057	11:08 AM	0.070	0.013	
10:18 AM	0.059	11:23 AM	0.062	0.003	
10:33 AM	0.055	11:38 AM	0.070	0.015	
10:48 AM	0.058	11:53 AM	0.077	0.019	
11:03 AM	0.057	12:08 PM	0.071	0.014	
11:18 AM	0.065	12:23 PM	0.066	0.001	
11:33 AM	0.065	12:38 PM	0.060	-0.005	
11:48 AM	0.061	12:53 PM	0.059	-0.002	
12:03 PM	0.057	1:08 PM	0.050	-0.007	
12:18 PM	0.058	1:23 PM	NR	0.058	
12:33 PM	0.057	1:38 PM	NR	0.057	
12:48 PM	0.056	1:53 PM	NR	0.056	
1:03 PM	0.057	2:08 PM	NR	0.057	
1:18 PM	0.055	2:23 PM	NR	0.055	

### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/16/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:50 AM	0.0	7:48 AM	0.0	0.0	
8:05 AM	0.0	8:03 AM	0.0	0.0	
8:20 AM	0.0	8:18 AM	0.0	0.0	
8:35 AM	0.0	8:33 AM	0.0	0.0	
8:50 AM	0.0	8:48 AM	0.0	0.0	
9:05 AM	0.0	9:03 AM	0.0	0.0	
9:20 AM	0.0	9:18 AM	0.0	0.0	
9:35 AM	0.0	9:33 AM	0.0	0.0	
9:50 AM	0.0	9:48 AM	0.0	0.0	
10:05 AM	0.0	10:03 AM	0.0	0.0	
10:20 AM	0.0	10:18 AM	0.0	0.0	
10:35 AM	0.0	10:33 AM	0.0	0.0	
10:50 AM	0.0	10:48 AM	0.0	0.0	
11:05 AM	0.0	11:03 AM	0.0	0.0	
11:20 AM	0.0	11:18 AM	0.0	0.0	
11:35 AM	0.0	11:33 AM	0.0	0.0	
11:50 AM	0.0	11:48 AM	0.0	0.0	
12:05 PM	0.0	12:03 PM	0.0	0.0	
12:20 PM	0.0	12:18 PM	0.0	0.0	
12:35 PM	0.0	12:33 PM	0.0	0.0	
12:50 PM	0.0	12:48 PM	0.0	0.0	
1:05 PM	0.0	1:03 PM	0.0	0.0	
1:20 PM	0.0	1:18 PM	0.0	0.0	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

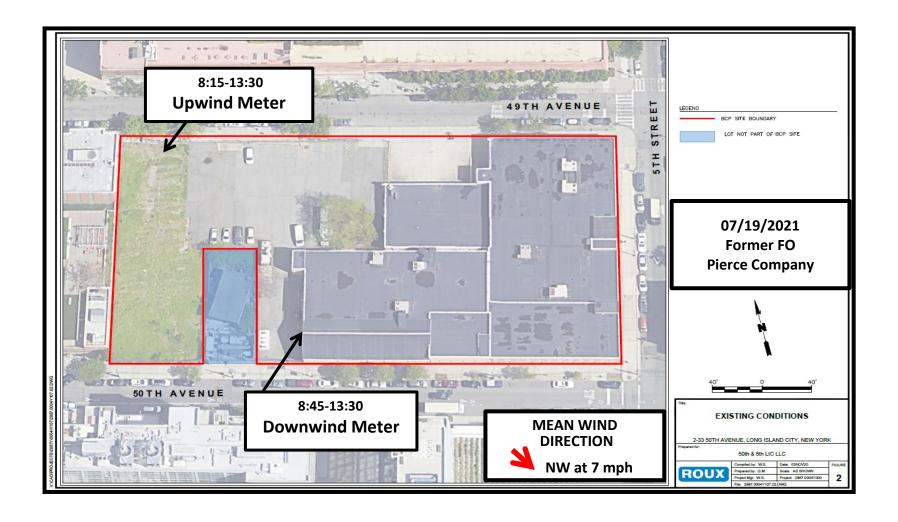
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/16/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	82 °F	71 °F	69 %	SW	6 mph	0 mph	29.98 in	0.0 in	Mostly Cloudy
7:51 AM	84 °F	69 °F	61 %	WSW	7 mph	0 mph	29.98 in	0.0 in	Partly Cloudy
8:51 AM	85 °F	70 °F	61 %	SW	5 mph	0 mph	29.98 in	0.0 in	Partly Cloudy
9:51 AM	88 °F	70 °F	55 %	CALM	0 mph	0 mph	29.98 in	0.0 in	Partly Cloudy
10:51 AM	89 °F	68 °F	50 %	W	6 mph	0 mph	29.98 in	0.0 in	Fair
11:51 AM	91 °F	68 °F	47 %	VAR	5 mph	0 mph	29.97 in	0.0 in	Fair
12:51 PM	92 °F	67 °F	44 %	SW	12 mph	0 mph	29.98 in	0.0 in	Fair
1:51 PM	94 °F	66 °F	40 %	SSW	13 mph	0 mph	29.96 in	0.0 in	Fair



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/19/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Ul	owind	Dow	vnwind	Corrected Downwind	Comments
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
8:18 AM	0.021	8:18 AM	0.023	0.002	
8:33 AM	0.039	8:33 AM	0.034	-0.005	
8:48 AM	0.025	8:48 AM	0.026	0.001	
9:03 AM	0.027	9:03 AM	0.028	0.001	
9:18 AM	0.026	9:18 AM	0.025	-0.001	
9:33 AM	0.025	9:33 AM	0.028	0.003	
9:48 AM	0.037	9:48 AM	0.034	-0.003	
10:03 AM	0.025	10:03 AM	0.018	-0.007	
10:18 AM	0.021	10:18 AM	0.020	-0.001	
10:33 AM	0.024	10:33 AM	0.017	-0.007	
10:48 AM	0.023	10:48 AM	0.019	-0.004	
11:03 AM	0.023	11:03 AM	0.018	-0.005	
11:18 AM	0.025	11:18 AM	0.020	-0.005	
11:33 AM	0.018	11:33 AM	0.014	-0.004	
11:48 AM	0.021	11:48 AM	0.017	-0.004	
12:03 PM	0.021	12:03 PM	0.018	-0.003	
12:18 PM	0.018	12:18 PM	0.013	-0.005	
12:33 PM	0.016	12:33 PM	0.011	-0.005	
12:48 PM	0.014	1:23 PM	0.009	-0.005	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/19/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
8:21 AM	0.0	8:21 AM	0.0	0.0	
8:36 AM	0.0	8:36 AM	0.0	0.0	
8:51 AM	0.1	8:51 AM	0.0	-0.1	
9:06 AM	0.1	9:06 AM	0.0	-0.1	
9:21 AM	0.1	9:21 AM	0.0	-0.1	
9:36 AM	0.1	9:36 AM	0.0	-0.1	
9:51 AM	0.2	9:51 AM	0.0	-0.2	
10:06 AM	0.2	10:06 AM	0.0	-0.2	
10:21 AM	0.2	10:21 AM	0.0	-0.2	
10:36 AM	0.2	10:36 AM	0.0	-0.2	
10:51 AM	0.2	10:51 AM	0.0	-0.2	
11:06 AM	0.2	11:06 AM	0.0	-0.2	
11:21 AM	0.2	11:21 AM	0.0	-0.2	
11:36 AM	0.2	11:36 AM	0.0	-0.2	
11:51 AM	0.2	11:51 AM	0.0	-0.2	
12:06 PM	0.2	12:06 PM	0.0	-0.2	
12:21 PM	0.2	12:21 PM	0.0	-0.2	
12:36 PM	0.2	12:36 PM	0.0	-0.2	
12:51 PM	NR	12:51 PM	0.0	0.0	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

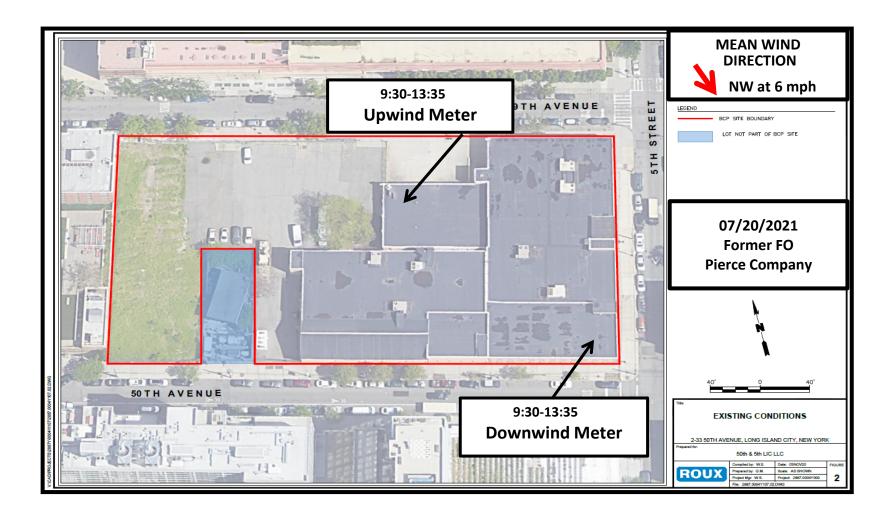
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/19/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
7:51 AM	73 °F	63 °F	71 %	NW	8 mph	0 mph	29.93 in	0.0 in	Mostly Cloudy
8:51 AM	74 °F	62 °F	66 %	NW	10 mph	0 mph	29.93 in	0.0 in	Cloudy
9:51 AM	75 °F	63 °F	66 %	WNW	3 mph	0 mph	29.94 in	0.0 in	Mostly Cloudy
10:51 AM	76 °F	62 °F	62 %	NNW	5 mph	0 mph	29.94 in	0.0 in	Cloudy
11:51 AM	73 °F	65 °F	76 %	N	13 mph	20 mph	29.94 in	0.0 in	Cloudy
12:51 PM	72 °F	65 °F	78 %	NNW	10 mph	0 mph	29.95 in	0.0 in	Light Rain
1:51 PM	75 °F	65 °F	71 %	CALM	0 mph	0 mph	29.94 in	0.0 in	Cloudy



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/20/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Uį	owind	Downwind		Corrected Downwind	Comments
Time	Concentration	Time	Concentration	Concentration	Comments
rime	[mg/m3]	rime	[mg/m3]	[mg/m3]	
9:44 AM	0.112	9:47 AM	0.117	0.005	
9:59 AM	0.154	10:02 AM	0.174	0.020	
10:14 AM	0.236	10:17 AM	0.194	-0.042	
10:29 AM	0.204	10:32 AM	0.181	-0.023	
10:44 AM	0.193	10:47 AM	0.171	-0.022	
10:59 AM	0.180	11:02 AM	0.183	0.003	
11:14 AM	0.155	11:17 AM	0.165	0.010	
11:29 AM	0.157	11:32 AM	0.162	0.005	
11:44 AM	0.184	11:47 AM	0.167	-0.017	
11:59 AM	0.185	12:02 PM	0.147	-0.038	
12:14 PM	0.192	12:17 PM	0.262	0.070	
12:29 PM	0.205	12:32 PM	0.267	0.062	
12:44 PM	0.226	12:47 PM	0.315	0.089	
12:59 PM	0.182	1:02 PM	0.294	0.112	Adjoining geotechnical drilling; instructed drillers to suppress dust.
1:14 PM	0.168	1:17 PM	0.267	0.099	
1:29 PM	0.194	1:32 PM	NR	0.194	Adjoining geotechnical drilling; instructed drillers to suppress dust.

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/20/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
9:47 AM	0.3	9:48 AM	0.0	-0.3	
10:02 AM	0.3	10:03 AM	0.0	-0.3	
10:17 AM	0.2	10:18 AM	0.0	-0.2	
10:32 AM	0.2	10:33 AM	0.0	-0.2	
10:47 AM	0.3	10:48 AM	0.0	-0.3	
11:02 AM	0.3	11:03 AM	0.0	-0.3	
11:17 AM	0.4	11:18 AM	0.0	-0.4	
11:32 AM	0.4	11:33 AM	0.0	-0.4	
11:47 AM	0.4	11:48 AM	0.0	-0.4	
12:02 PM	0.4	12:03 PM	0.1	-0.3	
12:17 PM	0.4	12:18 PM	0.1	-0.3	
12:32 PM	0.4	12:33 PM	0.1	-0.3	
12:47 PM	0.4	12:48 PM	0.1	-0.3	
1:02 PM	0.4	1:03 PM	0.1	-0.3	
1:17 PM	0.5	1:18 PM	0.1	-0.4	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/20/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
8:51 AM	78 °F	66 °F	66 %	NW	6 mph	0 mph	29.91 in	0.0 in	Haze
9:51 AM	80 °F	67 °F	64 %	NW	6 mph	0 mph	29.90 in	0.0 in	Haze
10:51 AM	82 °F	66 °F	58 %	NW	5 mph	0 mph	29.90 in	0.0 in	Haze
11:51 AM	84 °F	67 °F	56 %	NW	5 mph	0 mph	29.89 in	0.0 in	Fair
12:51 PM	85 °F	66 °F	53 %	NNW	7 mph	0 mph	29.88 in	0.0 in	Haze
1:51 PM	87 °F	64 °F	46 %	VAR	5 mph	0 mph	29.87 in	0.0 in	Haze

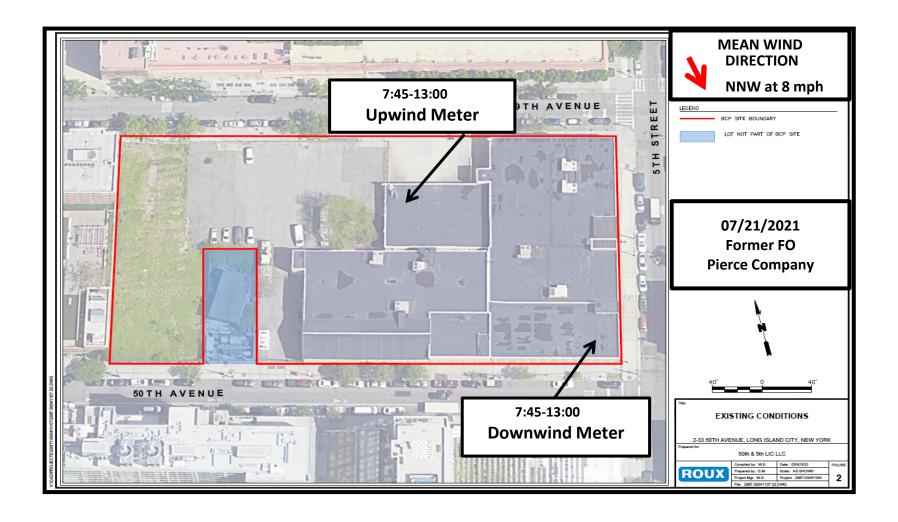
## **ACTION LIMIT REPORT**

2-33 50th Avenue, Long Island City, NY 11101 Tax Block 17 Lot 1

Project Location:

Date:	7/20/2021		Time: 12:59 and 13:29			
Name:	Jeffrey W	/ills			-	
Contaminant:	PM-10:	Yes	_ VOC: _	No	-	
Wind Speed:	6 mph	_	Wind Direction: _	NW		
Temperature:	85 °F	_ Ba	arometric Pressure: _	29.88"	Hg	
DOWNWIND DA	ATA					
Monitor ID #:	8530153504	Location:	12:59	Level Reported:	0.294 mg/m3	
Monitor ID#:	8530153504	_ Location:	13:29	Level Reported:	NR	
UPWIND DATA						
Monitor ID #:	8530131405	Location:	12:59	Level Reported:	0.182 mg/m3	
Monitor ID#:	8530131405	_ Location:	13:29	Level Reported:	0.194 mg/m3	
BACKGROUND	CORRECTED LEVI	<u>ELS</u>				
Monitor ID #:	NA	Location:	12:59	Level Reported:	0.112 mg/m3	
Monitor ID#:	NA	_ Location:	13:29	Level Reported:	0.194mg/m3	
ACTIVITY DESC	CRIPTION					
Adjoining geotee	chnical drilling opera	tion not associa	ted with Remedial Inve	estigation activities.		
CORRECTIVE A	ACTION TAKEN					
			ance and instructed the			
•			nfined within the Site's	warehouse. No com	nplaints were	
receeived from	the surrounding com	munity.				
-						





Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/21/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Uį	pwind	Downwind		Corrected Downwind	Comments
Time	Concentration	Time	Concentration	Concentration	Comments
Time	[mg/m3]	Time	[mg/m3]	[mg/m3]	
7:46 AM	0.160	7:47 AM	0.136	-0.024	
8:01 AM	0.165	8:02 AM	0.129	-0.036	
8:16 AM	0.162	8:17 AM	0.120	-0.042	
8:31 AM	0.156	8:32 AM	0.132	-0.024	
8:46 AM	0.150	8:47 AM	0.129	-0.021	
9:01 AM	0.144	9:02 AM	0.126	-0.018	
9:16 AM	0.250	9:17 AM	0.136	-0.114	Adjoining geotechnical drilling; instructed drillers to suppress dust.
9:31 AM	0.180	9:32 AM	0.136	-0.044	
9:46 AM	0.162	9:47 AM	0.129	-0.033	
10:01 AM	0.659	10:02 AM	0.308	-0.351	Adjoining geotechnical drilling; instructed drillers to suppress dust.
10:16 AM	0.197	10:17 AM	0.275	0.078	
10:31 AM	0.178	10:32 AM	0.235	0.057	
10:46 AM	0.167	10:47 AM	0.213	0.046	
11:01 AM	0.185	11:02 AM	0.246	0.061	
11:16 AM	0.148	11:17 AM	0.201	0.053	
11:31 AM	0.128	11:32 AM	0.161	0.033	
11:46 AM	0.122	11:47 AM	0.147	0.025	
12:01 PM	0.117	12:02 PM	0.125	0.008	
12:16 PM	0.132	12:17 PM	0.115	-0.017	
12:31 PM	0.152	12:32 PM	0.120	-0.032	
12:46 PM	0.119	12:47 PM	0.120	0.001	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/21/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:49 AM	0.2	7:50 AM	0.0	-0.2	
8:04 AM	0.2	8:05 AM	0.0	-0.2	
8:19 AM	0.2	8:20 AM	0.0	-0.2	
8:34 AM	0.3	8:35 AM	0.0	-0.3	
8:49 AM	0.3	8:50 AM	0.0	-0.3	
9:04 AM	0.3	9:05 AM	0.0	-0.3	
9:19 AM	0.4	9:20 AM	0.0	-0.4	
9:34 AM	0.4	9:35 AM	0.1	-0.3	
9:49 AM	0.5	9:50 AM	0.1	-0.4	
10:04 AM	0.5	10:05 AM	0.1	-0.4	
10:19 AM	0.5	10:20 AM	0.1	-0.4	
10:34 AM	0.5	10:35 AM	0.1	-0.4	
10:49 AM	0.6	10:50 AM	0.1	-0.5	
11:04 AM	0.6	11:05 AM	0.2	-0.4	
11:19 AM	0.6	11:20 AM	0.2	-0.4	
11:34 AM	0.6	11:35 AM	0.2	-0.4	
11:49 AM	0.5	11:50 AM	0.1	-0.4	
12:04 PM	0.5	12:05 PM	0.1	-0.4	
12:19 PM	0.4	12:20 PM	0.1	-0.3	
12:34 PM	0.4	12:35 PM	0.1	-0.3	
12:49 PM	0.4	12:50 PM	0.1	-0.3	

- 1. Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.
- 2. NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/21/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	76 °F	62 °F	62 %	CALM	0 mph	0 mph	29.83 in	0.0 in	Mostly Cloudy
7:51 AM	78 °F	62 °F	58 %	CALM	0 mph	0 mph	29.84 in	0.0 in	Mostly Cloudy
8:51 AM	78 °F	63 °F	60 %	NW	5 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
9:51 AM	79 °F	62 °F	56 %	NNW	7 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
10:51 AM	80 °F	60 °F	50 %	NW	7 mph	0 mph	29.86 in	0.0 in	Mostly Cloudy
11:51 AM	82 °F	61 °F	49 %	NNW	10 mph	0 mph	29.86 in	0.0 in	Mostly Cloudy
12:27 PM	80 °F	61 °F	52 %	NNW	14 mph	0 mph	29.86 in	0.0 in	Thunder in the Vicinity
12:34 PM	79 °F	61 °F	54 %	NNW	20 mph	0 mph	29.86 in	0.0 in	Thunder
12:51 PM	72 °F	65 °F	78 %	N	8 mph	0 mph	29.87 in	0.1 in	ight Rain with Thund€
1:28 PM	76 °F	66 °F	71 %	N	7 mph	0 mph	29.85 in	0.0 in	Thunder in the Vicinity

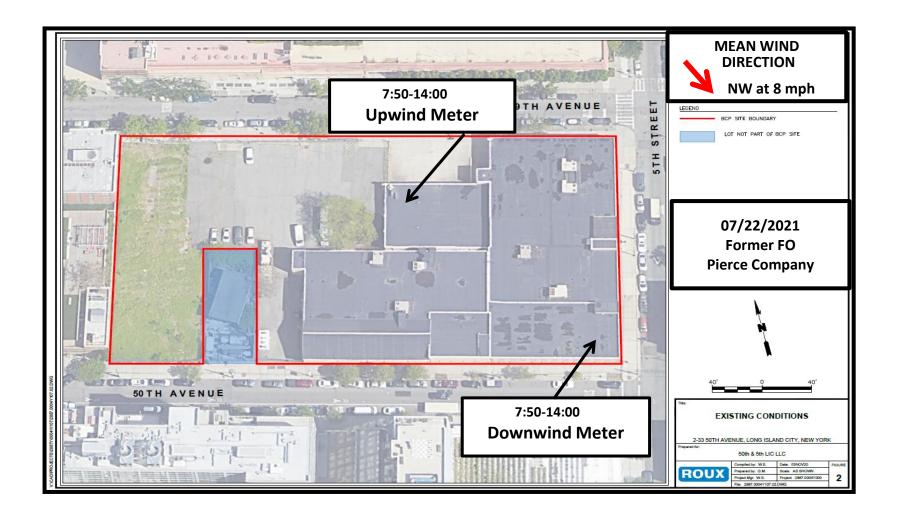
## **ACTION LIMIT REPORT**

2-33 50th Avenue, Long Island City, NY 11101 Tax Block 17 Lot 1

Project Location:

Date:	7/21/2021		Time: 9:16 and 10:01				
Name:	Jeffrey W	/ills				-	
Contaminant:	PM-10:	Yes	V	OC: _	No	_	
Wind Speed: _	8 mph	_	Wind Direc	tion:	NNV	V	
Temperature:	79 °F	_	Barometric Press	sure: _	29.85"	Hg	
DOWNWIND D	<u>ATA</u>						
Monitor ID #:	8530153504	Location:	9:16		Level Reported:	0.136 mg/m3	
Monitor ID#:	8530153504	Location:	10:01		Level Reported:	0.308 mg/m3	
UPWIND DATA	<u>\</u>						
Monitor ID #:	8530131405	Location:	9:16		Level Reported:	0.250 mg/m3	
Monitor ID#:	8530131405	_ Location:	10:01		Level Reported:	0.659 mg/m3	
BACKGROUND	CORRECTED LEV	<u>ELS</u>					
Monitor ID #:	NA	Location:	9:16		Level Reported:	-0.114 mg/m3	
Monitor ID#:	NA	Location:	10:01		Level Reported:	-0.351 mg/m3	
ACTIVITY DES	CRIPTION						
Adjoining geote	chnical drilling opera	tion not associa	ated with Remed	dial Inv	estigation activities.		
CORRECTIVE	ACTION TAKEN						
Informed geotee	chnical drillers of part	ticulate exceed	ance and instruc	cted the	em to more frequent	ly wet work area.	
No visible dust	was observed and ac	ctivities were co	onfined within the	e Site's	warehouse. No con	nplaints were	
receeived from	the surrounding com	munity.					





Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/22/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

U	pwind	Downwind		Corrected Downwind	Community
Time	Concentration	Time	Concentration	Concentration	Comments
7:57 AM	[mg/m3] 0.052	8:01 AM	[mg/m3] 0.041	[mg/m3] -0.011	
8:12 AM	0.032	8:16 AM	0.041	-0.011	
8:27 AM	0.075	8:31 AM	0.041	-0.034	
8:42 AM	0.101	8:46 AM	0.056	-0.035	
8:57 AM	0.068	9:01 AM	0.036	-0.043	
9:12 AM	0.084	9:16 AM	0.050	-0.023	
9:27 AM	0.057	9:31 AM	0.056	-0.001	
9:42 AM	0.037	9:46 AM	0.030	0.007	
9:57 AM	0.040	10:01 AM	0.034	-0.003	
10:12 AM	0.037	10:16 AM	0.037	-0.003	
10:12 AM	0.002	10:31 AM	0.037	-0.028	
10:42 AM	0.146	10:31 AM	0.051	-0.020	
10:57 AM	0.130	11:01 AM	0.031	-0.052	
11:12 AM	0.101	11:16 AM	0.096	-0.005	
11:27 AM	0.066	11:31 AM	0.060	-0.006	
11:42 AM	0.050	11:46 AM	0.049	-0.000	
11:57 AM	0.057	12:01 PM	0.053	-0.004	
12:12 PM	0.071	12:16 PM	0.046	-0.025	
12:27 PM	0.058	12:31 PM	0.042	-0.016	
12:42 PM	0.043	12:46 PM	0.037	-0.006	
12:57 PM	0.040	1:01 PM	0.037	-0.003	
1:12 PM	0.052	1:16 PM	0.061	0.009	
1:27 PM	0.072	1:31 PM	0.073	0.001	
1:42 PM	0.065	1:46 PM	0.066	0.001	
1:57 PM	0.096	2:01 PM	NR	0.096	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/22/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	wind	Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
8:00 AM	0.1	8:02 AM	0.0	-0.1	
8:15 AM	0.1	8:17 AM	0.0	-0.1	
8:30 AM	0.1	8:32 AM	0.0	-0.1	
8:45 AM	0.2	8:47 AM	0.0	-0.2	
9:00 AM	0.2	9:02 AM	0.0	-0.2	
9:15 AM	0.2	9:17 AM	0.0	-0.2	
9:30 AM	0.3	9:32 AM	0.0	-0.3	
9:45 AM	0.3	9:47 AM	0.0	-0.3	
10:00 AM	0.3	10:02 AM	0.0	-0.3	
10:15 AM	0.3	10:17 AM	0.0	-0.3	
10:30 AM	0.3	10:32 AM	0.0	-0.3	
10:45 AM	0.3	10:47 AM	0.0	-0.3	
11:00 AM	0.3	11:02 AM	0.0	-0.3	
11:15 AM	0.4	11:17 AM	0.0	-0.4	
11:30 AM	0.4	11:32 AM	0.0	-0.4	
11:45 AM	0.4	11:47 AM	0.0	-0.4	
12:00 PM	0.4	12:02 PM	0.0	-0.4	
12:15 PM	0.4	12:17 PM	0.0	-0.4	
12:30 PM	0.4	12:32 PM	0.0	-0.4	
12:45 PM	NR	12:47 PM	0.0	0.0	
1:00 PM	NR	1:02 PM	0.0	0.0	
1:15 PM	NR	1:17 PM	0.0	0.0	
1:30 PM	NR	1:32 PM	0.0	0.0	
1:45 PM	NR	1:47 PM	0.0	0.0	

- 1. Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.
- 2. NR = Not Recorded

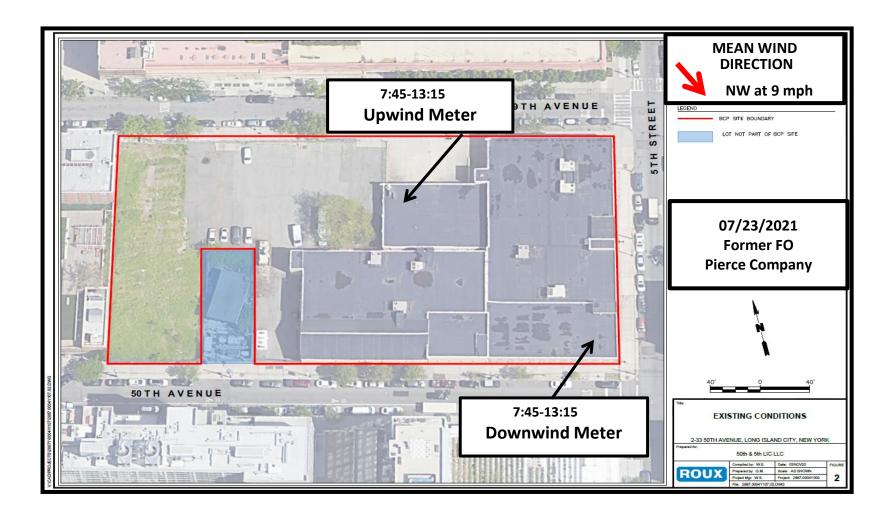
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/22/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	69 °F	58 °F	68 %	NW	8 mph	0 mph	30.02 in	0.0 in	Fair
7:51 AM	71 °F	56 °F	59 %	NW	8 mph	0 mph	30.02 in	0.0 in	Fair
8:51 AM	73 °F	55 °F	53 %	NW	10 mph	0 mph	30.04 in	0.0 in	Fair
9:51 AM	75 °F	56 °F	51 %	WNW	7 mph	0 mph	30.04 in	0.0 in	Fair
10:51 AM	77 °F	55 °F	46 %	VAR	6 mph	0 mph	30.05 in	0.0 in	Fair
11:51 AM	79 °F	54 °F	42 %	N	12 mph	0 mph	30.05 in	0.0 in	Mostly Cloudy
12:51 PM	80 °F	53 °F	39 %	N	5 mph	0 mph	30.05 in	0.0 in	Mostly Cloudy
1:51 PM	81 °F	55 °F	41 %	NW	6 mph	0 mph	30.03 in	0.0 in	Mostly Cloudy
2:51 PM	81 °F	52 °F	36 %	N	8 mph	0 mph	30.03 in	0.0 in	Mostly Cloudy



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/23/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Ul	pwind	Dow	nwind	Corrected Downwind	Comments
Time	Concentration	Time	Concentration	Concentration	Comments
	[mg/m3]		[mg/m3]	[mg/m3]	
7:55 AM	0.025	7:57 AM	0.034	0.009	
8:10 AM	0.027	8:12 AM	0.024	-0.003	
8:25 AM	0.058	8:27 AM	0.061	0.003	
8:40 AM	0.088	8:42 AM	0.098	0.010	
8:55 AM	0.081	8:57 AM	0.069	-0.012	
9:10 AM	0.058	9:12 AM	0.050	-0.008	
9:25 AM	0.072	9:27 AM	0.048	-0.024	
9:40 AM	0.113	9:42 AM	0.049	-0.064	
9:55 AM	0.100	9:57 AM	0.045	-0.055	
10:10 AM	0.090	10:12 AM	0.040	-0.050	
10:25 AM	0.052	10:27 AM	0.033	-0.019	
10:40 AM	0.063	10:42 AM	0.030	-0.033	
10:55 AM	0.049	10:57 AM	0.030	-0.019	
11:10 AM	0.044	11:12 AM	0.028	-0.016	
11:25 AM	0.040	11:27 AM	0.028	-0.012	
11:40 AM	0.035	11:42 AM	0.026	-0.009	
11:55 AM	0.046	11:57 AM	0.034	-0.012	
12:10 PM	0.035	12:12 PM	0.032	-0.003	
12:25 PM	0.045	12:27 PM	0.034	-0.011	
12:40 PM	0.049	12:42 PM	0.036	-0.013	
12:55 PM	0.076	12:57 PM	0.049	-0.027	
1:10 PM	0.051	1:12 PM	0.044	-0.007	

### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/23/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	owind	Dow	vnwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:58 AM	0.0	8:00 AM	0.0	0.0	
8:13 AM	0.1	8:15 AM	0.0	-0.1	
8:28 AM	0.1	8:30 AM	0.0	-0.1	
8:43 AM	0.1	8:45 AM	0.0	-0.1	
8:58 AM	0.2	9:00 AM	0.0	-0.2	
9:13 AM	0.2	9:15 AM	0.0	-0.2	
9:28 AM	0.2	9:30 AM	0.0	-0.2	
9:43 AM	0.2	9:45 AM	0.0	-0.2	
9:58 AM	0.2	10:00 AM	0.0	-0.2	
10:13 AM	0.2	10:15 AM	0.0	-0.2	
10:28 AM	0.2	10:30 AM	0.0	-0.2	
10:43 AM	0.3	10:45 AM	0.0	-0.3	
10:58 AM	0.3	11:00 AM	0.0	-0.3	
11:13 AM	0.3	11:15 AM	0.0	-0.3	
11:28 AM	0.3	11:30 AM	0.0	-0.3	
11:43 AM	0.3	11:45 AM	0.0	-0.3	
11:58 AM	0.3	12:00 PM	0.0	-0.3	
12:13 PM	0.3	12:15 PM	0.0	-0.3	
12:28 PM	0.3	12:30 PM	0.0	-0.3	
12:43 PM	0.3	12:45 PM	0.0	-0.3	
12:58 PM	0.3	1:00 PM	0.0	-0.3	
1:13 PM	0.3	1:15 PM	0.0	-0.3	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

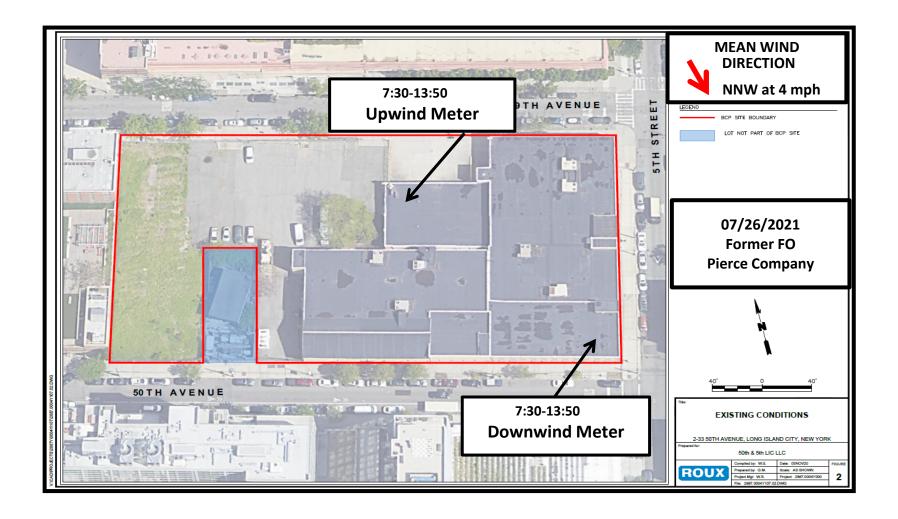
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/23/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	70 °F	54 °F	57 %	NW	10 mph	0 mph	30.10 in	0.0 in	Fair
7:51 AM	72 °F	52 °F	49 %	NW	6 mph	0 mph	30.11 in	0.0 in	Fair
8:51 AM	74 °F	54 °F	50 %	NW	8 mph	0 mph	30.12 in	0.0 in	Fair
9:51 AM	76 °F	53 °F	45 %	NNW	8 mph	0 mph	30.11 in	0.0 in	Fair
10:51 AM	78 °F	53 °F	42 %	VAR	7 mph	0 mph	30.10 in	0.0 in	Fair
11:51 AM	80 °F	50 °F	35 %	NNW	14 mph	0 mph	30.10 in	0.0 in	Fair
12:51 PM	80 °F	51 °F	36 %	NNW	8 mph	0 mph	30.08 in	0.0 in	Partly Cloudy
1:51 PM	81 °F	50 °F	34 %	NE	12 mph	0 mph	30.07 in	0.0 in	Partly Cloudy



Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/26/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Up	owind	Downwind		Corrected Downwind	Comments
Time	Concentration	Time		Concentration	Comments
Time	[mg/m3]	rime	[mg/m3]	[mg/m3]	
7:39 AM	0.314	7:41 AM	0.047	-0.267	
7:54 AM	0.162	7:56 AM	0.057	-0.105	Adjoining geotechnical drilling; instructed drillers to suppress dust.
8:09 AM	0.120	8:11 AM	0.051	-0.069	
8:24 AM	0.099	8:26 AM	0.058	-0.041	
8:39 AM	0.075	8:41 AM	0.053	-0.022	
8:54 AM	0.069	8:56 AM	0.068	-0.001	
9:09 AM	0.081	9:11 AM	0.050	-0.031	
9:24 AM	0.092	9:26 AM	0.054	-0.038	
9:39 AM	0.097	9:41 AM	0.055	-0.042	
9:54 AM	0.103	9:56 AM	0.058	-0.045	
10:09 AM	0.110	10:11 AM	0.040	-0.070	
10:24 AM	0.106	10:26 AM	0.044	-0.062	
10:39 AM	0.101	10:41 AM	0.050	-0.051	
10:54 AM	0.109	10:56 AM	0.058	-0.051	
11:09 AM	0.109	11:11 AM	0.057	-0.052	
11:24 AM	0.109	11:26 AM	0.055	-0.054	
11:39 AM	0.113	11:41 AM	0.050	-0.063	
11:54 AM	0.125	11:56 AM	0.058	-0.067	
12:09 PM	0.107	12:11 PM	0.057	-0.050	
12:24 PM	0.101	12:26 PM	0.046	-0.055	
12:39 PM	0.102	12:41 PM	0.053	-0.049	
12:54 PM	0.112	12:56 PM	0.052	-0.060	
1:09 PM	0.113	1:11 PM	0.059	-0.054	
1:24 PM	0.118	1:26 PM	0.072	-0.046	
1:39 PM	0.120	1:41 PM	0.060	-0.060	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

<sup>3.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/26/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Upwind		Downwind		Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:44 AM	0.0	7:44 AM	0.0	0.0	
7:59 AM	0.0	7:59 AM	0.0	0.0	
8:14 AM	0.1	8:14 AM	0.0	-0.1	
8:29 AM	0.1	8:29 AM	0.0	-0.1	
8:44 AM	0.1	8:44 AM	0.0	-0.1	
8:59 AM	0.1	8:59 AM	0.0	-0.1	
9:14 AM	0.2	9:14 AM	0.0	-0.2	
9:29 AM	0.2	9:29 AM	0.0	-0.2	
9:44 AM	0.2	9:44 AM	0.0	-0.2	
9:59 AM	0.3	9:59 AM	0.0	-0.3	
10:14 AM	0.3	10:14 AM	0.0	-0.3	
10:29 AM	0.3	10:29 AM	0.0	-0.3	
10:44 AM	0.3	10:44 AM	0.0	-0.3	
10:59 AM	0.3	10:59 AM	0.0	-0.3	
11:14 AM	0.3	11:14 AM	0.0	-0.3	
11:29 AM	0.3	11:29 AM	0.0	-0.3	
11:44 AM	0.3	11:44 AM	0.0	-0.3	
11:59 AM	0.3	11:59 AM	0.0	-0.3	
12:14 PM	0.3	12:14 PM	0.0	-0.3	
12:29 PM	0.3	12:29 PM	0.0	-0.3	
12:44 PM	0.3	12:44 PM	0.0	-0.3	
12:59 PM	0.4	12:59 PM	0.0	-0.4	
1:14 PM	0.3	1:14 PM	0.0	-0.3	
1:29 PM	0.3	1:29 PM	0.0	-0.3	
1:44 PM	0.4	1:44 PM	0.0	-0.4	

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/26/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	77 °F	70 °F	79 %	CALM	0 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
7:51 AM	78 °F	71 °F	79 %	NNW	6 mph	0 mph	29.86 in	0.0 in	Haze
8:51 AM	80 °F	71 °F	74 %	WNW	5 mph	0 mph	29.87 in	0.0 in	Mostly Cloudy
9:51 AM	82 °F	67 °F	60 %	NW	5 mph	0 mph	29.86 in	0.0 in	Cloudy
10:51 AM	85 °F	62 °F	46 %	NNW	6 mph	0 mph	29.87 in	0.0 in	Cloudy
11:51 AM	86 °F	63 °F	46 %	NNW	5 mph	0 mph	29.87 in	0.0 in	Mostly Cloudy
12:51 PM	86 °F	63 °F	46 %	N	3 mph	0 mph	29.87 in	0.0 in	Mostly Cloudy
1:51 PM	89 °F	61 °F	39 %	CALM	0 mph	0 mph	29.86 in	0.0 in	Mostly Cloudy

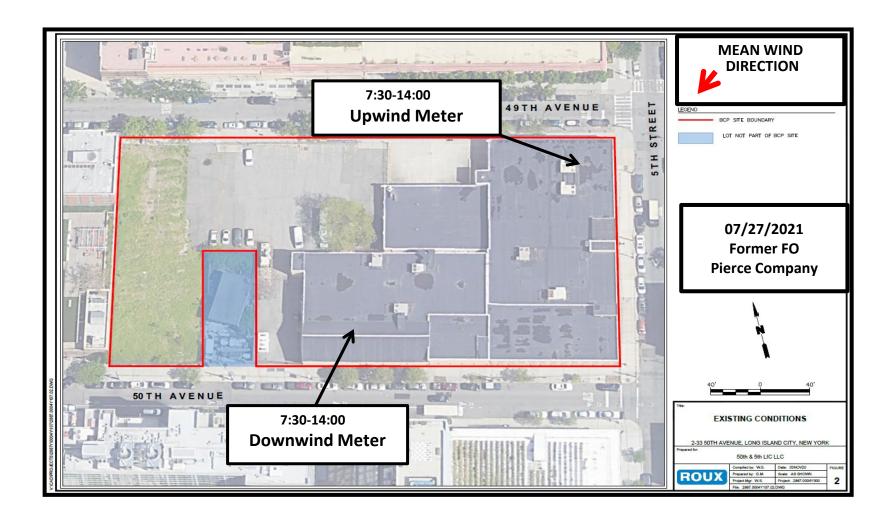
## **ACTION LIMIT REPORT**

### 2-33 50th Avenue, Long Island City, NY 11101 Tax Block 17 Lot 1

Project Location:

Date:	7/26/2021			Time:	7:54		
Name:	Jeffrey W	ills				-	
Contaminant:	PM-10:	Yes		VOC:	No	_	
Wind Speed:	4 mph		Wind Dire	ction:	NNW	I	
Temperature:	78 °F	I	Barometric Pres	sure:	29.86" Hg		
DOWNWIND DA	ATA						
Monitor ID #:	8530153504	Location:	7:54		Level Reported:	0.057 mg/m3	
Monitor ID#:		Location:			Level Reported:		
UPWIND DATA							
Monitor ID #:	8530131405	Location:	7:54		Level Reported:	0.162 mg/m3	
Monitor ID#:		Location:			Level Reported:		
BACKGROUND	CORRECTED LEVE	<u>LS</u>					
Monitor ID #:	NA	Location:	7:54		Level Reported:	-0.105 mg/m3	
Monitor ID#:		Location:			Level Reported:		
ACTIVITY DESC	CRIPTION						
Adjoining geoted	chnical drilling operati	ion not associ	ated with Reme	dial Inv	vestigation activities.		
CORRECTIVE A	ACTION TAKEN						
Informed geotec	hnical drillers of parti	culate exceed	dance and instru	icted th	em to more frequentl	y wet work area.	
No visible dust w	vas observed and act	ivities were c	onfined within th	ne Site's	s warehouse. No com	nplaints were	
receeived from t	he surrounding comn	nunity.					





## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Dust

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/27/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Up	owind	Dov	vnwind	Corrected	
	0 1 1:	Concentration		Downwind	Comments
Time	Concentration	Time	Concentration	Concentration	
7.04.414	[mg/m3]	7.00 414	[mg/m3]	[mg/m3]	
7:31 AM	0.104	7:33 AM	0.045	-0.059	
7:46 AM	0.125	7:48 AM	0.047	-0.078	
8:01 AM	0.123	8:03 AM	0.052	-0.071	
8:16 AM	0.106	8:18 AM	0.090	-0.016	
8:31 AM	0.104	8:33 AM	0.098	-0.006	
8:46 AM	0.117	8:48 AM	0.087	-0.030	
9:01 AM	0.108	9:03 AM	0.089	-0.019	
9:16 AM	0.109	9:18 AM	0.090	-0.019	
9:31 AM	0.104	9:33 AM	0.098	-0.006	
9:46 AM	0.106	9:48 AM	0.100	-0.006	
10:01 AM	0.116	10:03 AM	0.102	-0.014	
10:16 AM	0.129	10:18 AM	0.107	-0.022	
10:31 AM	0.127	10:33 AM	0.102	-0.025	
10:46 AM	0.136	10:48 AM	0.098	-0.038	
11:01 AM	0.125	11:03 AM	0.101	-0.024	
11:16 AM	0.126	11:18 AM	0.109	-0.017	
11:31 AM	0.121	11:33 AM	0.103	-0.018	
11:46 AM	0.121	11:48 AM	0.099	-0.022	
12:01 PM	0.126	12:03 PM	0.101	-0.025	
12:16 PM	0.131	12:18 PM	0.106	-0.025	
12:31 PM	0.121	12:33 PM	0.080	-0.041	
12:46 PM	0.108	12:48 PM	0.097	-0.011	
1:01 PM	0.111	1:03 PM	0.089	-0.022	
1:16 PM	0.106	1:18 PM	0.075	-0.031	
1:31 PM	0.108	1:33 PM	0.065	-0.043	
1:46 PM	NR	1:48 PM	0.065	0.065	

#### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - VOC

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/27/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Upwind		Dow	nwind	Corrected <sup>1</sup> Downwind	Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:34 AM	0.1	7:37 AM	0.0	-0.1	
7:49 AM	0.1	7:52 AM	0.0	-0.1	
8:04 AM	0.2	8:07 AM	0.0	-0.2	
8:19 AM	0.2	8:22 AM	0.0	-0.2	
8:34 AM	0.3	8:37 AM	0.0	-0.3	
8:49 AM	0.3	8:52 AM	0.0	-0.3	
9:04 AM	0.3	9:07 AM	0.0	-0.3	
9:19 AM	0.4	9:22 AM	0.0	-0.4	
9:34 AM	0.4	9:37 AM	0.0	-0.4	
9:49 AM	0.4	9:52 AM	0.0	-0.4	
10:04 AM	0.4	10:07 AM	0.0	-0.4	
10:19 AM	0.4	10:22 AM	0.0	-0.4	
10:34 AM	0.4	10:37 AM	0.0	-0.4	
10:49 AM	0.4	10:52 AM	0.0	-0.4	
11:04 AM	0.4	11:07 AM	0.0	-0.4	
11:19 AM	0.4	11:22 AM	0.1	-0.3	
11:34 AM	0.4	11:37 AM	0.1	-0.3	
11:49 AM	0.4	11:52 AM	0.1	-0.3	
12:04 PM	0.4	12:07 PM	0.1	-0.3	
12:19 PM	0.4	12:22 PM	0.1	-0.3	
12:34 PM	0.4	12:37 PM	0.1	-0.3	
12:49 PM	0.4	12:52 PM	0.0	-0.4	
1:04 PM	0.4	1:07 PM	0.0	-0.4	
1:19 PM	0.4	1:22 PM	0.0	-0.4	
1:34 PM	NR	1:37 PM	0.0	0.0	
1:49 PM	NR	1:52 PM	0.0	0.0	

#### Notes:

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

# Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Weather

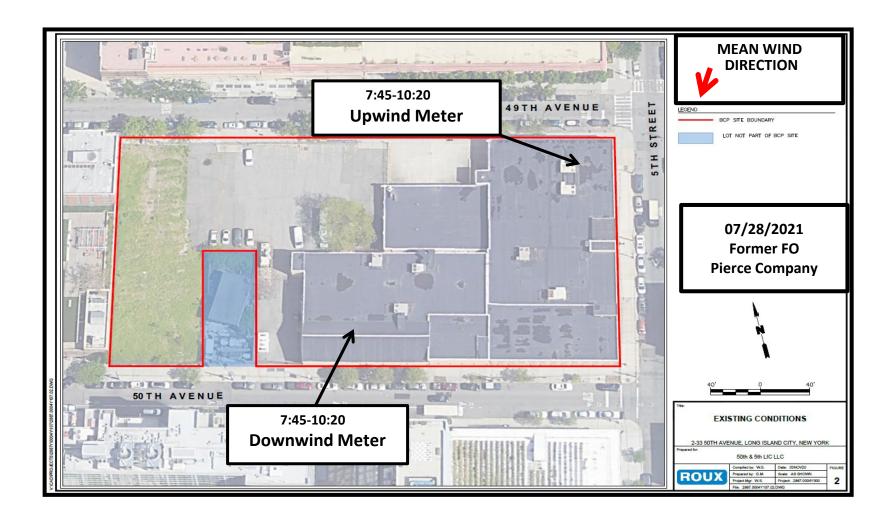
Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/27/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	74 °F	64 °F	71 %	ENE 5 mph 0 mph 29.93 i		29.93 in	0.0 in	Fair	
7:51 AM	77 °F	63 °F	62 %	ENE	6 mph	0 mph	29.93 in	0.0 in	Fair
8:51 AM	81 °F	63 °F	54 %	ENE	3 mph	0 mph	29.92 in	0.0 in	Partly Cloudy
9:51 AM	86 °F	60 °F	41 %	SSW	6 mph	0 mph	29.92 in	0.0 in	Partly Cloudy
10:51 AM	88 °F	57 °F	35 %	CALM	0 mph	0 mph	29.93 in	0.0 in	Fair
11:51 AM	88 °F	56 °F	34 %	VAR	5 mph	0 mph	29.92 in	0.0 in	Fair
12:51 PM	90 °F	55 °F	30 %	SSE	9 mph	18 mph	29.91 in	0.0 in	Fair
1:51 PM	90 °F	59 °F	35 %	SSE	14 mph	20 mph	29.89 in	0.0 in	Partly Cloudy
2:51 PM	90 °F	59 °F	35 %	S	14 mph	0 mph	29.89 in	0.0 in	Partly Cloudy



## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Dust

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/28/2021

Upwind Serial Number 8530131405 Downwind Serial Number 8530153504

Upwind		Downwind		Corrected Downwind	Comments
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	Comments
7:48 AM	0.046	7:46 AM	0.044	-0.002	
8:03 AM	0.044	8:01 AM	0.042	-0.002	
8:18 AM	0.048	8:16 AM	0.048	0.000	
8:33 AM	0.042	8:31 AM	0.039	-0.003	
8:48 AM	0.048	8:46 AM	0.049	0.001	
9:03 AM	0.050	9:01 AM	0.059	0.009	
9:18 AM	0.050	9:16 AM	0.045	-0.005	
9:33 AM	0.062	9:31 AM	0.056	-0.006	
9:48 AM	0.047	9:46 AM	0.044	-0.003	
10:03 AM	0.044	10:01 AM	0.040	-0.004	
10:18 AM	0.046	10:16 AM	0.042	-0.004	

#### Notes:

3. NR = Not Recorded

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location in mg/m3 and then corrected to ug/m3 to account for site specific exceedance limit of 100 ug/m3.

<sup>2.</sup> Location of downwind meter is typically designated as "Downwind (1)". If there are multiple work areas that require downwind monitoring then each respective downwind location is designated by "Downwind (1)", "Downwind (2)", etc. until all work areas are adequately covered.

## Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - VOC

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/28/2021

Upwind Serial Number 592-920865 Downwind Serial Number 592-916202

Up	Upwind		Downwind		Comments
	VOC Average		VOC Average	VOC Average	Comments
Time	(ppm)	Time	(ppm)	(ppm)	
7:51 AM	0.1	7:50 AM	0.0	-0.1	
8:06 AM	0.2	8:05 AM	0.0	-0.2	
8:21 AM	0.3	8:20 AM	0.0	-0.3	
8:36 AM	0.3	8:35 AM	0.0	-0.3	
8:51 AM	0.3	8:50 AM	0.0	-0.3	
9:06 AM	0.3	9:05 AM	0.0	-0.3	
9:21 AM	0.3	9:20 AM	0.0	-0.3	
9:36 AM	0.3	9:35 AM	0.0	-0.3	
9:51 AM	0.3	9:50 AM	0.0	-0.3	
10:06 AM	0.3	10:05 AM	0.0	-0.3	
10:21 AM	0.3	10:20 AM	0.0	-0.3	

#### Notes:

<sup>1.</sup> Corrected downwind concentration is based on the difference of the upwind meter concentration and respective downwind meter location.

<sup>2.</sup> NR = Not Recorded

# Roux Environmental Engineering and Geology, D.P.C. Community Air Monitoring Program - Weather

Project: Former FO Pierce Company

PM: Jeffrey Wills

Location: 2-33 50th Avenue, Long Island City

Date: 7/28/2021

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Condition
6:51 AM	72 °F	64 °F	76 %	NNE	6 mph	0 mph	29.93 in	0.0 in	Partly Cloudy
7:51 AM	73 °F	63 °F	71 %	N	9 mph	0 mph	29.95 in	0.0 in	Fair
8:51 AM	75 °F	63 °F	66 %	N	6 mph	0 mph	29.96 in	0.0 in	Fair
9:51 AM	74 °F	64 °F	71 %	NNE	8 mph	0 mph	29.97 in	0.0 in	Mostly Cloudy
10:51 AM	77 °F	63 °F	62 %	NNW	8 mph	0 mph	29.98 in	0.0 in	Partly Cloudy

### Remedial Investigation Report Former FO Pierce Company 2-33 50<sup>th</sup> Avenue, Long Island City, New York

#### **APPENDIX M**

**Disposal Documentation** 

2887.0004Y114/CVRS ROUX

## CleanEarth

Facility for Approval: ESOL - Hatfield, PA

Profile #:

Generator #:
--------------

Requested Process Code Approval Date

Customer E	xperience Manager:				A	p <del>prova</del> l Date		
	Account Manager:				Appro	oved Process Code		
A: GENERATOR INFORM	ATION Name: Fo	rtress New York H	loldings, Inc.	NAI	ICS	EPA ID#: CE	SQG	
Site Address: 2-33 50	Oth Avenue			y: Long Island	City	State: N	/ Zip: 11	101
Mailing Address: 99 Bos	ton Street		G	y: Boston		State: M	A Zip: 02	2125
Contact: Bradon	Vella	Email: bveila	@rouxinc.com	Phone (	516) 554	4220 Fax:		
Title:	Manifest ER p	hone #: (267)4	06-0083 Su	bpart P	(es 🗸	No State ID#		
Generator Status:	LOG TISOG FIVE	SOG/CESQG	NESHAP Genera	tor:	res 🔽	No NESHAP	TAB Y	s VNo
TSDF Approval List		sposal Restrictions		-	70			
======================================		Sposi Kedicuois			_			
B: CUSTOMER/BILLING/	BROKER INFORMATIO	ON: Sai	me as Generating	Facility addres	53			
Company Name: Inn	ovative Recycling Tech	nologies, Inc.				Phone: (631) 225-30		767
Address: 690 N Que	eens Ave.		a		urst	State NY	_ · _	757
Contact: John Dull		E	Email: jdull@irtw	raste.com		Fax: (631)	225-3056	
C: WASTE INFORMATION	N: Waste Common	Name: Drill Cuttir	ngs					
Process generating Waste		orings /installation						
Form: W Sour	rce:G Origin	: Unuse	d Commercial Pro	duct:	Yes	No SpillResid	iue: Ye	s √No
Loosepack Yes	No Gener	ator has provided t	he following:	✓ Analysis		Formulary SD	s ∏Sa	mple
D PHYSICAL CHARACTE			icable information			· · · · · · · · · · · · · · · · · · ·		
D PHISICAL CHARACIE	Physical State (Liquid,		Range (30%		uat appi	Specific Gravity	Viscosity	Low-water,
Layers:	Gas, Debris, Powder,		max)	Colo	r	(water=1, oil<1, sol >1)	Med-oil,H	igh-Honey)
Multi-layered	Top Layer: Water		10 - 20	Murk	cy	1		
✓ Bi-Layered	Middle Layer:							
	Bottom Layer: Soil		80 - 90	Brov	10	>1	TO Use I	
Single Phased			00 30					20
Odor None	Mild Strong			Pumpab		· -	ree Liquid: <u>10</u> (D002: pH s	
pH: LN/A L	≤2 <u></u> >2 4 _	4.01 - 10	10.01-12.49			Actual		
Liquid Flash Point: 73	3° F 73-100° F	101<140° F	140-200°F	>200'F	None	Actual:	✓ Closed	☐ Open
(D001 <140f)		🗆				W Water 40.00	- W Ash	ı: N/A
BTU/lbs range:	btu/lb2000-5000	blu/16   >5	000 btu/lb %	Halogens : <u>N</u>	VA	% Water: 10-20		. 107
E CHEMICAL COMPOSI	TION OF WASTE (TOT		vazardous & non-l			100% constituents):		
Constituent		TRI (sec 313)	Range (max of 30	(%) Cons	stituent		TRI Ka	nge
Soil		_   80					님	-to —— %
Water		_ 🛚 🖰					닏	
		_	to%				Ц —	_to%
		<u> </u>	<sup>to</sup> *				Ш —	_to%
			<sup>6</sup> *					_to%
F Indicate if this waste cont	ains any of the following	and by what supp	porting means:	<b>V</b> Lab	Analysis	Generator Kn	owledge	SDS
PCB V/	· · · · · · · · · · · · · · · · · · ·	· <u>· · </u>	N/A	ppm		_ vo	OC (ppm)	₩/A
			N/A		TO		∏<∞	□ ×500
PCB TSCA Regulated	∐Yes ☑No	Deluzile V		_ppm _	- <u>10</u>   N/A		bject to Subpa	_
		141			VIN/A	☐<1%   Su	DIECT TO SUDDA	TT L L'
Cyanides, Total N/	Appm	Water >10%	_			- = - 1 1		
Cyanides, Total N/. Sulfides, Total N/.	3	Water >10% V	_ =		1-10%	>10%		V No
Sulfides, Total VN/	Appm	NESHAP TAB	Yes No		1-10%	>10%	Yes	₽No
Sulfides, Total VN/	Appm	NESHAP TAB	_	CERCL	1-10%	>10%	Yes	
Sulfides, Total VN/	Appm	NESHAP TAB	Yes No	CERCL Asbesto	1-10% A	>10% Dioxins Phenolics	Yes In	No Sections

Test Type V TOLP					
	CLP Limit		TCLP Limit		TCLP Limit
Volatile Compounds	(mg/l)	Semi-Volatiles:	<u>(mg/)</u>	METALS:	<u>(mg/l)</u>
D018 Benzene	0.5	D023 o-Cresol	200.0	D004 Arsenic (As)	5.0 pp
D019 Carbon Tetrachloride	0.5	D024 m-Cresol	200.0	D005 Barium (Ba)	100.0 PP
D020 Chlorobenzene	100.0	D025 p-Cresol	200.0	D006 Cadmium(Cd)	1.0 PP
0021 Chloroform	6.0	D026 Cresol (Total)	200.0	D007 Chromium(Cr)	5.0 PP
D022 1,2-Dichloromethane	0.5	D027 1.A-Dichlorobenzene		D008 Lead (Pb)	5.0 PP
D028 1,1-Dichloroethylene	0.7	D030 2.4-Dinitrotoluene	0.13	D009 Mercury (Hg)	0.2 —— PP
D035 Methyl ethyl ketone	200.0	D032 Hexachlorobenzene	0.13	D010 Selenium (Se)	1.0 PP
D039 Tetrachloroethylene	0.7	D033 Hexachlorobutadien		D011 Silver (Ag)	5.0 PP
D040 Trichloroethylene	0.5	D034 Hexachloroethane	3.0	Antimony (Sb)	PP
D043 Vinyl Chloride	0.2	D036 Nitrobertzene	20	Beryllium (Be)	рр
Pesticide/Herbicide		D037 Pentachlorophenol	100.0	Hexavalent Chrome (Cr+6	i) PP
D012 Endrin	0.02	D038 Pyridine	5.0	Cobalt (Co)	pp
D013 Lindane	0.4	D041 2.4.5-Trichloropheno	l 400.0	Copper (Cu)	PP
D014 Methoxychlor	10.0	D042 2,4,6-Trichloropheno	1 20	Nickel (Ni)	PP
D015 Toxaphene	0.5	D020 Chlordane	0.03	Trallium (II)	PP
D016 2,4-D	10.0	D031 Hepachlor	0.008	☐ Vanadium (V)	PP
D017 24.5-TP (silvex)	1.0	(& its epoxide)		Zinc (Zn)	PP
LANDFILLINFORMATION	mpleted a sou	rce reduction strategy ( <u>PA FORM 2</u> Waste Si	<u>SR</u> link), pleas ubject to Land		Yes VNo
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewalt (10C<1%, 1 IDENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION:	mpleted a source SS(1%) SWASTE STI	Waste State Non-wastewater LDR Mater State	SR link), pleas ubject to Land erial meets Fe Marine	se submit with this profile. I Oisposal Restrictions (LDR)?	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewate (IOC<1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material?	mpleted a sources SS-1%) SWASTE STI Limited Q Yes	Non-wastewater LDR Mater REAM:  Waste State Stat	SR link), pleas ubject to Land erial meets Fe Marine	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes V No	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewate (IOC<1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard?	mpleted a source SS-1%) SWASTE STI Limited Q Yes No If Y	Waste Si Non-wastewater LDR Mate Si Non-wastewat	SR link), pleas ubject to Land erial meets Fe  Marine eportable Qua OT Informatic , CA letter, Spe	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes V No ntity (RQ) item in pounds:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a	mpleted a source.  SSC1%) SWASTE STI  Limited Q  Yes No If Y	Waste Stategy (PA FORM 2  Waste State Stat	SR link), pleas ubject to Land erial meets Fe  Marine eportable Qua OT Informatic , CA letter, Spe	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes V No ntity (RQ) item in pounds:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a	mpleted a source SS<1%) SWASTE STI Limited Q Yes No If Y PTION: USE	Waste Si Non-wastewater LDR Male Si Non-wastewater LDR Male REAM:    Waste Si No	SR link), pleas ubject to Land erial meets Fe  Marine eportable Qua OT Informatic , CA letter, Spe	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes V No ntity (RQ) item in pounds:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewate (IOC<1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex UN1993, Waste Flammable Liqu	mpleted a source strain of the	Waste Si Non-wastewater LDR Male Si Non-wastewater LDR Male REAM:    Waste Si No	SR link), please abject to Landerial meets Fe  Marine portable Quantification, CA letter, Special Control of the HA	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes V No ntity (RQ) item in pounds:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewate (IOC<1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex: UN1993, Waste Flanmable Lique Method of Shipment Bulk Light	mpleted a source of the source	Waste Size reduction strategy (PA FORM 2  Waste Size Size Size Size Size Size Size Siz	Marine  OT Informatic  CA Letter, Special  OT THE HA	se submit with this profile. d Oisposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No ntity (RQ) item in pounds:  on: ool Permit)  ZARDOUS WASTE MANIFEST:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewalk (IOC<1%, I IDENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex: UN1993, Waste Flammable Liqu Method of Shipment Bulk Lich Average Shipment Quantity w/ UO!	mpleted a source of the source	Waste Size reduction strategy (PA FORM 2  Waste Size Size Size Size Size Size Size Siz	Marine  OT Informatic  CA Letter, Special  OT THE HA	es submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds: on! Carpout Purnit)  ZARDOUS WASTE MANIFEST:	Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a Wastewalt (TOC<1%, T IDENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex UN1993, Waste Flammable Lique Method of Shipment Daultity w/ UO!  GENERATOR CERTIFICATION  To the best of my knowledge and belieforments is true, accurate, and comportmation in the handling and proceeds.	mpleted a source of the property of the proper	Waste Si Non-wastewater LDR Mate REAM:  Wantuty Yes No Res, ZONE? — Additional Di (Ex. Lighter test  regulated Material tone, methanol), 3, UN1993, PG II  k Solid Container (type/size to, drums, etc):  6  Varrant and represent that the information material fact has been omitted a	Marine  portable Qua  OT Informatic  CA letter, Spec  Shipping Franchiston contains  to make this	es submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds: on! Carpout Purnit)  ZARDOUS WASTE MANIFEST:	Yes VNc Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a Wastewalt (TOC<1%, T IDENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex UN1993, Waste Flammable Lique Method of Shipment Daultity w/ UO!  GENERATOR CERTIFICATION  To the best of my knowledge and belieforments is true, accurate, and comportmation in the handling and proceeds.	mpleted a sour  SS-1%)  SWASTE STI  Limited Q  Yes  No If Y  PHON: USE  Non DOT Re  Id, N.O.S (accertaid But  M (lbs, gallors  lief, I hereby was plete and that the generator.	Waste Si Non-wastewater LDR Mat  REAM:  Dantuty Yes No Re  Waste Si No Re  Waste Material  REAM:  Container (type/size  divarrant and represent that the information material fact has been omitted a  waste material described herein. By	Marine  Portable Qua  OT Information  CA letter, Special  Shipping From the stormake this signing this stormake th	se submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  on: col Peroli)  ZARDOUS WASTE MANIFEST:  on drum  equency (one time, daily, weekly, etc.)  med and submitted in the waste profiles misleading. I understand that others waste profile, I am certifying that I am waste profile, I am certifying that I am	Yes No Yes No Yes No No  Yes No No  Yes No N
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewalk (IOC<1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRIT Von Hazardous Drill Cuttings, N Ex UN1993, Waste Flammable Lique Method of Shipment Quantity w/ Uol GENERATOR CERTIFICATION To the best of my knowledge and belocuments is true, accurate, and compound on the handling and product documentation on behalf of the	mpleted a source of the property of the proper	Waste Si Non-wastewater LDR Male REAM:  Wantuty Yes No Res, ZONE? — Additional Di (Ex. Lighter test tone, methanol), 3, UN1993, PG II k Solid Container (type/size i, drums, etc):  6  Warrant and represent that the information material fact has been omitted a waste material described herein. By	Marine  Marine  Portable Qua  OT Information  CA Letter, Spec  Shipping Frametion contains to make this signing this v	es submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  on: on! Col Permit)  ZARDOUS WASTE MANIFEST:  on drum  equency (one time, daily, weekly, etc.)  med and submitted in the waste profiles misleading. I understand that otherwaste profile, I am certifying that I am  and one of the color o	Yes VNc Yes VNc
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a Wastewalk (100<1%, I IDENTIFY ALL URC's IN THIS SHIPPING INFORMATION:  Is this a DOT Hazardous Material?  Inhalation Hazard? Yes US DOT DESCRI  Non Hazardous Drill Cuttings, N  Ex: UN1993, Waste Flammable Lique  Method of Shipment Bulk Lic  Average Shipment Quantity w/ Uol  GENERATOR CERTIFICATION  To the best of my knowledge and beldocuments is true, accurate, and complormation in the handling and processing the complex of the best	mpleted a source of the property of the proper	Waste Si Non-wastewater LDR Mat  REAM:  Dantuty Yes No Re  Waste Si No Re  Waste Material  REAM:  Container (type/size  divarrant and represent that the information material fact has been omitted a  waste material described herein. By	Marine  Portable Qua  OT Information  CA letter, Special  Shipping From the stormake this signing this stormake th	se submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  on: col Peroli)  ZARDOUS WASTE MANIFEST:  on drum  equency (one time, daily, weekly, etc.)  med and submitted in the waste profiles misleading. I understand that others waste profile, I am certifying that I am waste profile, I am certifying that I am	Yes No Yes No Yes No No  Yes No No  Yes No N
Pennsylvania Generators: If you con LANDFILL INFORMATION This waste is a Wastewalt (IOC<1%, I IDENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION: Is this a DOT Hazardous Material? Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, N Ex UN1993, Waste Flammable Liquid Method of Shipment Daulk Licuid Method of Shipment Quantity w/ UO! GENERATOR CERTIFICATION To the best of my knowledge and beld documents is true, accurate, and com	mpleted a source of the property of the proper	Waste Si Non-wastewater LDR Male REAM:  Wantuty Yes No Res, ZONE? — Additional Di (Ex. Lighter test tone, methanol), 3, UN1993, PG II k Solid Container (type/size i, drums, etc):  6  Warrant and represent that the information material fact has been omitted a waste material described herein. By	Marine  Marine  Portable Qua  OT Information  CA Letter, Spec  Shipping Frametion contains to make this signing this v	es submit with this profile. d Disposal Restrictions (LDR)? deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  on: on! Col Permit)  ZARDOUS WASTE MANIFEST:  on drum  equency (one time, daily, weekly, etc.)  med and submitted in the waste profiles misleading. I understand that otherwaste profile, I am certifying that I am  and one of the color o	Yes No Yes No Yes No No  Yes No No  Yes No N
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a Wastewate (IOC-1%, I IDENTIFY ALL UHC's IN THIS SHIPPING INFORMATION:  Is this a DOT Hazardous Material?  Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, Next Ex UN1993, Waste Flammable Lique Method of Shipment Quantity w/ UO!  GENERATOR CERTIFICATION  To the best of my knowledge and beldocuments is true, accurate, and cominformation in the handling and proceedings of the such documentation on behalf of the Mathorized Signature  mitted Facility for Approval	mpleted a source of the property of the proper	Waste St.  Non-wastewater LDR Material  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  No  Waste St.  Additional Dr.  (Ex. Lighter test.)  Get Lighter test.  THE FULL BASIC DESCRIPTION  Equilated Material  tone, methanol), 3, UN1993, PG II  Resolution of the st.  Waste material fact has been omitted a waste material described herein. By  Material St.  Waste St.	Marine  Marine  Marine  Portable Quai  OT Informatic  CA letter, Spec  ON THE HA  Shipping From the stormake this signing this this si	deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  On:  Col Permit)  ZARDOUS WASTE MANIFEST:  On drum  Equency (one time, daily, weekly, etc.)  and and submitted in the waste profil smisleading. I understand that others waste profile, I am certifying that I am  S. O.  Date	Yes VNc Yes VNc  Yes VNc  e and all attached as may rely on this in authorized to sign
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a	mpleted a source of the property of the proper	Waste St.  Non-wastewater LDR Material  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  No  Waste St.  Additional Dr.  (Ex. Lighter test.)  Get Lighter test.  THE FULL BASIC DESCRIPTION  Equilated Material  tone, methanol), 3, UN1993, PG II  Resolution of the st.  Waste material fact has been omitted a waste material described herein. By  Material St.  Waste St.	Marine  Marine  Marine  Portable Quai  OT Informatic  CA letter, Spec  ON THE HA  Shipping From the stormake this signing this this si	deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  On:  Col Permit)  ZARDOUS WASTE MANIFEST:  On drum  Equency (one time, daily, weekly, etc.)  and and submitted in the waste profil smisleading. I understand that others waste profile, I am certifying that I am  S. O.  Date	Yes VNc Yes VNc  Yes VNc  e and all attached as may rely on this in authorized to sign
Pennsylvania Generators: If you con LANDFILL INFORMATION  This waste is a Wastewate (IOC<1%, I Wastewate (IOC<1%, I DENTIFY ALL UHC'S IN THIS SHIPPING INFORMATION:  Is this a DOT Hazardous Material?  Inhalation Hazard? Yes US DOT DESCRI Non Hazardous Drill Cuttings, Next Excurrence of the Waster Shipment Waster Flammable Lique Method of Shipment Quantity w/ UO!  GENERATOR CERTIFICATION  To the best of my knowledge and beldocuments is true, accurate, and complormation in the handling and processed occurrents are true, accurate and complormation in the handling and processed occurrence on behalf of the waster of the Waster Signature  mitted Facility for Approval contravers with 40 CFR 264.12(b), ablic Environmental Systems (Pennsylval)	mpleted a sour  SSC1%)  SWASTE STI  Limited Q  Yes  No If Y  PHON: USE  Non DOT Re id, N.O.S (acce  quid Buil  M (lbs, gallons  M (lbs, gallons  itief, I hereby w  pplete and that  ressing of the re  generator.  Author  Author  Author  Author  Annia), LLC has the	Waste St.  Non-wastewater LDR Material  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  Non-wastewater LDR Material  Waste St.  Waste St.  Waste St.  No  Waste St.  Additional Dr.  (Ex. Lighter test.)  Get Lighter test.  THE FULL BASIC DESCRIPTION  Equilated Material  tone, methanol), 3, UN1993, PG II  Resolution of the st.  Waste material fact has been omitted a waste material described herein. By  Material St.  Waste St.	Marine  Marine  Marine  Portable Quai  OT Informatic  CA letter, Spec  ON THE HA  Shipping From the stormake this signing this this si	deral Treatment Standards?  Pollutant Yes No notity (RQ) item in pounds:  On:  Col Permit)  ZARDOUS WASTE MANIFEST:  On drum  Equency (one time, daily, weekly, etc.)  and and submitted in the waste profil smisleading. I understand that others waste profile, I am certifying that I am  S. O.  Date	Yes VNc Yes VNc  Yes VNc  e and all attached as may rely on this in authorized to sign

TY DECLIFATED CONCTANTENTS, C

### CleanEarth

Facility for Approval: ESOL - Hatfield, PA

Profile #: Generator #:

Requested Process Code Customer Experience Manager: Approval Date Account Manager: Approved Process Code A: GENERATOR INFORMATION Name: Fortress New York Holdings, Inc. NAICS EPA ID#: CESQG Site Address: 2-33 50th Avenue City: Long Island City State: NY Zip: 11101 Mailing Address: 99 Boston Street City: Boston State: MA Zip: 02125 Contact: Brandon Vella Email: bvella@rouxinc.com Phone: (516) 554-4220 Fax: Title: Project Scientist Manifest ER phone #: (267)406-0083 Subpart P ✓ No State ID# Generator Status: ☐LQG ☐SQG ☑VSQG/CESQG **NESHAP Generator:** V No NESHAP TAB Yes V No TSDF Approval List Yes ₽ No Disposal Restrictions: B: CUSTOMER/BILLING/BROKER INFORMATION: Same as Generating Facility address Company Name: Innovative Recycling Technologies, Inc. Phone: (631) 225-3044 Address: 690 N Queens Ave. City: Lindenhurst State NY Zip: 11757 Contact: John Dull Email: jdull@irtwaste.com Fax: (631) 225-3056 C: WASTE INFORMATION: Waste Common Name: Purge Water Process generating Waste (be specific): Well development Form: W Source: G Origin: Unused Commercial Product: Yes ✓ No Yes No Spill Residue: Loosepack Yes No Generator has provided the following: ✓ Analysis Formulary SDS Sample D PHYSICAL CHARACTERISTICS OF WASTE Enter all applicable information and check all that apply Physical State (Liquid, Solid, Sludge, Comp. Range Specific Gravity Viscosity (Low-water, Layers: Gas, Debris, Powder, Monolithic solid) Color max) Med-oil, High-Honey) (water=1, oil<1, sol >1) Top Layer: Water Multi-layered 100 - 100 Murky 1 Middle Layer: Bi-Layered Single Phased Bottom Layer: Odor ✓ None Mild Strong Description: No % Free Liquid: 100 Pumpable: **▽**Yes П≤2 DH: >2 -4 4.01 - 10 10.01-12.49 ≥12.5 (D002: pH ≤2 or ≥12.5) Actual Liquid Flash Point 73' F 73-100° F 101<140° F 140-200° F ≥200°F None Actual: Closed Open (D001 <140f) BTU/lbs range: <a></a></a></a></a><2000 btu/lb</p>
Description: >5000 btu/lb % Halogens: N/A % Water: 100 % Ash: N/A E CHEMICAL COMPOSITION OF WASTE (TOTAL comp with all hazardous & non-hazardous must exceed 100% constituents): Constituent TRI (sec 313) Range (max of 30%) TRI Range Water to 100 Г to to to to F Indicate if this waste contains any of the following and by what supporting means: ✓ Lab Analysis Generator Knowledge □sds PCB V N/A Pesticides ✓ N/A ppm ppm VOC (ppm) V N/A PCB TSCA Regulated Yes V No Benzene V N/A TOC ppm <500 >500 Cyanides, Total V N/A Water >10% Yes ₽ No V N/A □<1% Subject to Subpart CC: Sulfides, Total ✓ N/A NESHAP TAB Yes ppm ₽ No 1-10% >10% No G Check all that may apply: Reactive (Other)/Temp Sens CERCLA Dioxins Infectious Ignitable Solid Cyanide Reactive Oxidizer Asbestos, Friable Phenolics Radioactive Water Reactive Sulfide Reactive Shock Sensitive Asbestos, Non-friable Ammonia Herbicides APHIS Waste PFAS/PFOA Medical (sharps,needles) RCRA Haz Debris Subpart P Explosive

H REGULATED CONSTITUENTS:	Check any r	regulated constituent above reg	ulatory limit and not	e value. Check test method and sour	rce(s) used :
Test Type: V TCLP	Total	Source(s):	✓ Analytical	Generator Knowledge	
	CLP Limit		TCLP Limit		TCLP Limit
Volatile Compounds:	(mg/l)	Semi-Volatiles:	(mg/l)	METALS:	(mg/l)
D018 Benzene	0.5	D023 o-Cresol	200.0	D004 Arsenic (As)	5.0 ppm
D019 Carbon Tetrachloride		D024 m-Cresol	200.0	D005 Barium (Ba)	100.0 ppm
D020 Chlorobenzene	100.0	D025 p-Cresol	200.0	D006 Cadmium(Cd)	1.0 ppm
D021 Chloroform	6.0	D026 Cresol (Total)		D007 Chromium(Cr)	5.0 ppm
D022 1,2-Dichloromethane	0.5	D027 1,4-Dichlorob		D008 Lead (Pb)	5.0 ppm
D028 1,1-Dichloroethylene D035 Methyl ethyl ketone	0.7	D030 2,4-Dinitrotol	tene	D009 Mercury (Hg)	0.2 ppm
D039 Tetrachloroethylene	200.0	D032 Hexachlorobe		D010 Selenium (Se)	1.0 ppm
D040 Trichloroethylene	0.7	D033 Hexachlorobu	addicine	D011 Silver (Ag)	5.0 ppm
D043 Vinyl Chloride	0.5	D034 Hexachloroeth	2.0	Antimony (Sb)	ppm
Pesticide/Herbicide		D037 Pentachloroph		Beryllium (Be)	ppm
D012 Endrin	0.02	D038 Pyridine	5.0	Hexavalent Chrome (Cr+6)	
D013 Lindane	0.4	D041 2,4,5-Trichloro		Cobalt (Co)	ppm
D014 Methoxychlor	10.0	D042 2,4,6-Trichloro		Copper (Cu)	ppm
D015 Toxaphene	0.5	D020 Chlordane		☐ Nickel (Ni)☐ Thallium (II)	ppm
□ D016 2,4-D	10.0	D031 Hepachlor	0.03	Vanadium (V)	ppm ppm
D017 2,4,5-TP (silvex)	1.0	(& its epoxide)		Zinc (Zn)	ppm
I USEPA/STATE/GENERATOR ST	TATE WAS	TE IDENTIFICATION:			
EPA Hazardous Waste :	Yes V		sal Waste: Yes	No EPA Exemption ref:	
List ALL applicable RCRA waste cod	les:				
	Yes 🔽 N	lo Generator State Univers	al Waste: Yes	No DW/EHW:	Yes V No
List all applicable State waste codes :					
Pennsylvania Generators: If you com LANDFILL INFORMATION	ipieted a so				
This waste is a Wastewater		71		Disposal Restrictions (LDR)?	Yes No
(TOC<1%, TS	S<1%)		K Material meets rede	eral Treatment Standards?	Yes No
IDENTIFY ALL UHC'S IN THIS	WASTE ST	REAM:	_		
J SHIPPING INFORMATION:	Limited (	Quantuty Yes No	Marine P	Collutant Yes No	
Is this a DOT Hazardous Material?	☐ Yes	✓ No Is U.No		ity (RQ) item in pounds:	
Inhalation Hazard? Yes	No If	Yes, ZONE? _ Addition	nal DOT Information:		
LIS DOT DESCRIP	TTON, HET		ter test, CA letter, Specia		
Non Hazardous Purge Water, No			TION ON THE HAZA	ARDOUS WASTE MANIFEST:	
Ex: UN1993, Waste Flammable Liquid			C II		
_	uid Bu			daime	
Average Shipment Quantity w/ UOM					
	(103, Bullott	5, 414115, 64.).	Shipping Freque	uency (one time, daily, weekly, etc):	one time
GENERATOR CERTIFICATION					
To the best of my knowledge and belie	ef, I hereby	warrant and represent that the	information contained	l and submitted in the waste profile a	and all attached
information in the handling and proce	ssing of the	it no material fact has been omi	tted as to make this m	sicloading I and antend 1 that at	
such documentation on behalf of the g	enerator.		-, -, -, -, -, -, -, -, -, -, -, -, -, -	one prome, ram cermying that ram a	uthorized to sign
Thomas tons	The	mas Brins	C.0	0. 9/	121
Authorized Signature	Autho	orized Printed Name	Title	Date	
Permitted Facility for Approval					
In accordance with 40 CFR 264.12(b),					
Republic Environmental Systems (Pennsylvan	ia), LUC has	the appropriate permits for, and w	rill accept the waste the	generator is shipping as described in thi	s profile.
Section To be completed by Clean Earth SPECIAL HANDLING/ DISPOSAL INSTRUCTION	ie.				
2. 22. ELECTION					
Requires PUSO TAB Profi	le	Meets Categoric	al Discharge Standard	ls CTW Category	

1		5 50 16		on Ohore	A Waste To	cking Number				
	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST V S Q G	2. Page 1 of	3. Emergency Respon	83		43	312			
	5. Generator's Name and Mailing Address Fortreas New York Holdlings, Inc. 99 Boston Street Boston MA 02125		Generator's Site Address Fostress New 2-33 50th Ave Long Island C	York Hold	ings, inc.	55)				
1	Generator's Phone: 6. Transporter 1 Company Name		A SECTION OF	U.S. EPA ID N	lumber					
1	Innovative Recycling Technologies, Inc. 7. Transporter 2 Company Name				U.S. EPA ID N	N Y R O O O 1 3 4 9 4 0				
1		110				982	8813	81		
ı	Republic Environmental Systems (Trans Group) 8. Desgrafed Facility Name and Site Address Republic Environmental Systems (PA), LLC 2869 Sandstone Drive Hatfield PA 19440	SALE DE			U.S. EPA ID		6906	92		
ı	Facility's Phone: 248 822-8995		10. Co	ntainers	11. Total	12. Unit				
ı	Waste Shipping Name and Description		No.	Туре	Quantity	Wt./Vol.	72			
GENERATOR	Non Hazardous Drill Cuttings     Non-DOY Regulated Material		6	7111	1900	P				
GEN GEN	2. Non-Hazardous Purge Whiter Non-DOT Regulated Material		9	DM	1300	р				
۱	3.									
۱	4.									
Ш	Special Handling Instructions and Additional Information							10000000		
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of marked and labeled/placarded, and are in all respects in proper condition for transpo	rt according to applic	cable international and	described above	e by the proper s mental regulation	hipping name, a				
V	Generator's/Offeror's Printed/Typed Name	Sq	gnature				Month	Day	Year	
INT'L	15. International Shipments Import to U.S.  Transporter Signature (for exports only):	Export from		of entry/exit: leaving U.S.:						
ER	16. Transporter Acknowledgment of Receipt of Materials	e.	gnature				** "		Mana	
OR	Transporter 1 Printed/Typed Name		granure	1			Month	Day	Year	
TRANSPORTER	Transporter 2 Printed Typed Name	Si	gnature				Month	Day	Year	
A	17. Discrepancy						THE REAL PROPERTY.			
	17a. Discrepancy Indication Space Quantity Typ	е	Residue		Partial F	Rejection		Full Rejection	n	
-	17b. Alternate Facility (or Generator)		Manifest Referen	ne wumper:	U.S. EPA I	D Number	Total Control			
ACILIT					1					
ATED F	Facility's Phone:  17c. Signature of Alternate Facility (or Generator)						Month	Day	Year	
- DESIGNATED FACILITY										
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by	ty the manifest eyes	of as noted in Item 17s							
	Printed/Typed Name		gnature		No.		Month	Day	Year	
1		The second second								