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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

January 8, 2018

Melissa Sweet
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway
Albany, NY 12233-7015

RE: NYSDEC Site No. 130081, Former Munsey Cleaners & Former Plaza Cleaners, 1029 Port Washington Boulevard, Port Washington – September 2017 Biannual Groundwater Sampling Event

Dear Ms. Sweet:

This letter summarizes recent field activities conducted by Environmental Assessment & Remediations (EAR) at the above referenced site; in response to directives outlined in NYSDEC *Standby Contractor Authorization Form*, Callout ID: 128427. The scope of work included collection of 7 surface water samples and 47 groundwater samples from 7 onsite monitoring wells, 38 offsite monitoring wells, and 2 public supply wells. A site location map has been provided as Figure 1 and a site map has been included as Figure 2.

Field Activities

Monitoring Well Sampling
EAR deployed pre-filled and sealed 220 mL passive diffusion bags (PDBs) in a total 43 monitoring wells between September 18, 2017 and September 27, 2017. Prior to installation, each well was gauged for depth to water (DTW) and total well depth (TWD). Using manufacturer-provided hanging assemblies, each PDB was installed within the screened section of the well, at the center of the measured water column (if the entire water column was within the well screen) or the center of the well screen (if the center of water column was outside of the well screen). The PDBs remained in place for approximately 2½ weeks prior to retrieval and sample collection.

Between October 17, 2017 and October 20, 2017, PDBs were retrieved and samples were collected. Scissors used during sample collection were decontaminated between sample locations. Decontamination consisted of a Liquinox/water wash, followed by a distilled water rinse. Field measurements and deployment/sampling details have been included as Table 1.

Two wells, MC-12B and MC-12C, were found to be artesian during the deployment event. As approved by the NYSDEC, PDBs were not deployed in these wells and samples were collected using dedicated, disposable bailers on October 20, 2017.

At MC-11B, the installed PDB broke away from the hanging assembly and could not be recovered for sampling on October 18, 2017. The PDB was recovered from the well on October 26, 2017 and a replacement was deployed the same day, using the methodology described previously. PDB recovery and sampling at this location was completed on November 13, 2017.

Surface Water Sampling
A total of 7 surface water samples were collected on October 16, 2017 and included 3 samples from Baxter Pond and 4 samples from Baxter Brook. As requested by the NYSDEC, sample locations from both water bodies were consistent with those completed by the previous contractor. Access to Baxter Pond and Baxter Brook was coordinated with the Nassau County Parks Department prior to sampling. Each sample was collected using a dedicated, disposable bailer.

Public Supply Well Sampling
EAR coordinated with the Port Washington Water District (PWWD) to obtain access to their Sandy Hollow well field for the sampling of 2 public supply wells (PWSH-1 and PWSH-2). EAR technicians met with PWWD representatives and collected pre-treatment water samples from the 2 public supply wells on October 16, 2017.

Quality Assurance/Quality Control (QA/QC) Samples
A total of 4 blind duplicate samples and 6 (laboratory-prepared) trip blanks were submitted for analysis during this event. Blind duplicates were collected from the following locations: MW-3 (MW-X), MC-12B (MC-12X), PC-10B (PC-10X), and MC-BAX-1 (MC-BAX-X). For the duration of the event, trip blanks were submitted at a rate of 1 per day of sample collection.

Sample Collection
A total of 54 water samples were submitted to a NYSDEC standby contracted laboratory (TestAmerica, Inc.) for analysis of volatile organic compounds (VOCs) via EPA Method 8260. As requested by the NYSDEC, additional 1,4-dioxane analysis (EPA Method 8260 SIM) was conducted at the following locations: MC-7 (A-C), MC-11C, MC-12C, PC-1 (B-C), PC-3, PC-6 (A-C), PC-9, and PC-10 (B-C).

All QA/QC samples were submitted to TestAmerica for VOC analysis via EPA Method 8260. As requested by the NYSDEC, 1 blind duplicate sample, PC-10X, was submitted for additional 1,4-dioxane analysis via EPA Method 8260 SIM.

Once samples were collected, all sample containers were placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. Samples were submitted for standard (30-day) turnaround time, with Category A deliverables requested.

Laboratory Analytical Results

For this sampling event, 14 analytes were detected at concentrations above their respective laboratory reporting limit. Of these, exceedances of NYSDEC TOGS 1.1.1 water quality standard/guidance values were reported for the following analytes: 1,2 dichloroethane; cis-1,2 dichloroethene; tetrachloroethene; trichloroethylene; and vinyl chloride. Analytical results from this event have been summarized on Tables 2 and 3, and were compared to the NYSDEC TOGS 1.1.1 water quality standard/guidance values. Analytical results for select contaminants of concern have been posted to a site map and included as Figures 3 and 4. Analytical results from monitoring well network samples have been included as Figure 3 and

surface water/PWWD analytical results have been posted on Figure 4. A blind duplicate comparison summary has been included as Table 3.

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631-447-6400, extension 152.

Sincerely,

Stephen Goetz
Project Manager/Geologist

Tables

TABLE 1

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
Site # 130081

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
EAR Water Level Readings
September 2017-November 2017

			Deployment					Retrieval		
Location	Approximate Screened Depth	Screen Length (ft)	Date	DTW (ft)	TWD (ft)	PDB Length (ft)	Depth to Center of PDB (ft)	Date	DTW (ft)	TWD (ft)
Onsite Wells										
MW-1	23-33	10	09/18/17	23.65	33.15	4	28.40	10/17/17	25.04	33.05
MW-2	19-34	15	09/18/17	23.80	33.10	4	28.45	10/17/17	24.22	37.99
MW-3	18-34	16	09/18/17	22.79	33.95	4	28.37	10/17/17	na	na
MW-4	18-36	17	09/18/17	23.09	35.72	4	29.40	10/17/17	23.48	35.76
MW-5	19-37	18	09/18/17	23.49	36.90	4	29.00	10/17/17	25.88	37.22
MW-6	19-38	19	09/18/17	24.82	37.40	4	31.10	10/17/17	25.23	37.44
MW-7	unknown	unknown	09/18/17	26.86	38.00	4	32.40	10/17/17	na	na
Offsite Wells										
MC-5	22-32	10	09/19/17	23.75	30.20	4	26.92	10/19/17	24.13	30.60
MC-6B	65-70	5	09/19/17	40.24	67.80	2	65.30	10/19/17	40.68	68.04
MC-6C	85-90	5	09/19/17	39.18	85.75	2	83.09	10/19/17	40.02	86.61
MC-7A	40-50	10	09/20/17	24.75	40.95	4	34.90	10/19/17	25.10	50.14
MC-7B	63-68	5	09/20/17	45.15	69.85	4	67.33	10/19/17	25.03	69.88
MC-7C	84-89	5	09/20/17	63.81	88.50	4	86.01	10/19/17	25.00	88.96
MC-8A	47-57	10	09/19/17	51.07	56.74	4	53.89	10/19/17	51.30	57.17
MC-8B	75-80	5	09/19/17	50.81	81.10	2	78.44	10/19/17	51.05	81.09
MC-8C	85-90	5	09/19/17	54.50	90.55	2	88.01	10/19/17	51.20	90.29
MC-9A	37-47	10	09/20/17	39.77	49.00	2	43.44	10/20/17	39.91	47.13
MC-9B	57-62	5	09/20/17	39.92	61.30	2	58.73	10/20/17	40.13	61.71
MC-9C	67-72	5	09/20/17	39.82	70.35	2	67.60	10/20/17	40.03	70.61
MC-11A	73-83	10	09/21/17	76.19	85.39	4	80.79	10/18/17	75.96	85.11
[1] MC-11B	98-103	5	10/26/17	76.13	103.29	4	100.79	11/13/17	76.23	102.71
MC-11C	122-127	5	09/27/17	75.36	127.90	4	123.41	10/18/17	75.75	128.05
[2] MC-12B	63-68	5	-	-	-	-	-	-	-	-
[2] MC-12C	97-102	5	-	-	-	-	-	-	-	-
PC-1A	20-30	10	09/21/17	24.63	29.91	2	23.91	10/18/17	24.99	29.71
PC-1B	38-43	5	09/21/17	24.63	43.91	4	39.41	10/18/17	25.00	43.65
PC-1C	85-90	5	09/21/17	23.34	91.31	4	86.81	10/18/17	23.77	93.15
PC-3	65-75	10	09/21/17	62.75	75.55	4	68.55	10/20/17	63.10	75.85
PC-5B	60-70	10	09/19/17	20.41	71.70	4	66.71	10/20/17	20.81	71.26
PC-5C	115-120	5	09/19/17	20.26	121.00	2	118.46	10/20/17	20.61	121.50
PC-6A	74-84	10	06/21/17	60.60	83.51	4	76.51	10/20/17	61.09	84.38
PC-6B	105-115	10	09/20/17	60.41	115.15	4	112.66	10/20/17	60.68	115.42
PC-6C	125-130	5	09/20/17	60.35	129.85	4	127.35	10/20/17	62.82	130.43
PC-7A	27-32	5	09/19/17	23.65	32.80	2	30.08	10/18/17	24.01	33.71
PC-7B	69-74	5	09/19/17	24.08	73.60	2	71.07	10/18/17	24.44	74.31
PC-7C	110-115	5	09/19/17	24.02	114.87	2	112.01	10/18/17	24.40	121.48
PC-8A	28-38	10	09/20/17	31.28	38.15	4	34.67	10/19/17	31.58	38.47
PC-8B	100-105	5	09/20/17	31.39	106.00	2	103.49	10/19/17	31.74	105.95
PC-8C	146-151	5	09/20/17	31.98	148.75	4	146.00	10/19/17	31.92	149.11
PC-9	8-18	10	09/21/17	8.03	18.74	4	11.74	10/20/17	6.79	18.62
PC-10B	70-80	10	09/21/17	62.31	80.94	4	73.94	10/18/17	60.65	80.69
PC-10C	135-140	5	09/21/17	0.71	125.05	4	120.55	10/18/17	7.96	124.80
PC-12A	38-48	10	09/19/17	26.49	48.32	4	43.30	10/17/17	26.91	48.74
[3] PC-12B	87-92	5	09/27/17	28.00	92.89	4	88.35	10/17/17	28.30	91.35
[3] PC-12C	133-138	5	09/27/17	28.19	139.48	4	134.99	10/17/17	28.51	138.02

Notes:
na - well could not be accessed for gauging

[1] PDB broke away from hanging assembly during retrieval on 10/18/17. PDB was recovered on 10/26/17 and new PDB was deployed for sampling.

[2] Well was artesian at time of PDB deployment, unable to deploy PDB. Well was sampled with a dedicated, disposal bailer on 10/20/17.

[3] Obstruction reported in well during initial deployment attempt. Unable to deploy 2' PDB. Able to deploy 4' PDB during second installation attempt.

TABLE 2

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
Site # 130081

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results (µg/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	PDB Deployment Date	Sample Collection Date	1,1 Dichloroethene	1,2 Dichloroethane	1,2 Dichloroethene	4-Methyl-2-Pentanone	Acetone	Chloroethane	Chloroform	cis-1,2-Dichloroethene	MEK (2-Butanone)	Tetrachloroethene	Toluene	Total BTEX	trans-1,2-Dichloroethene	Trichloroethylene	Vinyl Chloride	Total VOCs	1,4 Dioxane* (EPA Method 8260C-SIM)
Onsite Wells																			
MW-1	09/18/17	10/17/17	<1	<1	<2	<5	2.5 BJ	<1	<1	<1	<5	9.3	<1	<5	<1	<1	<1	12	-
MW-2	09/18/17	10/17/17	<1	<1	1.5 J	1.0 J	3.7 BJ	<1	<1	1.5	<5	2.6	<1	<5	<1	1.5	<1	12	-
MW-3	09/18/17	10/17/17	<1	<1	1.8 J	<5	3.7 BJ	<1	<1	1.8	<5	250	<1	<5	<1	2.2	<1	260	-
MW-4	09/18/17	10/17/17	<1	<1	<2	<5	3.1 BJ	<1	<1	<1	<5	5.7	<1	<5	<1	0.3 J	<1	9.0	-
MW-5	09/18/17	10/17/17	<1	<1	<2	<5	3.7 BJ	<1	<1	<1	<5	100	<1	<5	<1	0.7 J	<1	104	-
MW-6	09/18/17	10/17/17	<1	<1	<2	<5	4.5 BJ	<1	<1	<1	<5	2.4	<1	<5	<1	<1	<1	7.0	-
MW-7	09/18/17	10/17/17	<1	<1	<2	<5	3.4 BJ	<1	<1	<1	<5	8.0	<1	<5	<1	<1	<1	11	-
Offsite Wells																			
MC-5	09/19/17	10/19/17	<1	<1	<2	<5	4.1 J	<1	<1	<1	<5	24	<1	<5	<1	0.3 J	<1	28	-
MC-6B	09/19/17	10/19/17	<1	<1	<2	<5	2.8 J	<1	<1	<1	2.6 J	1.5	<1	<5	<1	0.3 J	<1	7.0	-
MC-6C	09/19/17	10/19/17	<1	<1	8.2	<5	3.0 J	<1	<1	7.4	2.6 J	0.12 J	<1	<5	0.8 J	23	0.1 J	45	-
MC-7A	09/20/17	10/19/17	<1	<1	<2	<5	4.8 J	<1	<1	<1	<5	41	<1	<5	<1	0.2 J	<1	46	<0.4
MC-7B	09/20/17	10/19/17	<1	<1	<2	<5	3.1 J	<1	<1	<1	<5	120	<1	<5	<1	0.5 J	<1	124	<0.4
MC-7C	09/20/17	10/19/17	<1	<1	0.5 J	<5	3.8 J	<1	<1	0.5 J	<5	340	<1	<5	<1	1.8	<1	347	<0.4
MC-8A	09/19/17	10/19/17	<1	<1	<2	<5	3.2 J	<1	<1	<1	<5	1.1	<1	<5	<1	<1	<1	4.0	-
MC-8B	09/19/17	10/19/17	<1	<1	<2	<5	2.2 J	<1	<1	<1	2.5 J	13	<1	<5	<1	<1	<1	18	-
MC-8C	09/19/17	10/19/17	<1	<1	<2	<5	2.4 J	<1	<1	<1	2.3 J	2.5	<1	<5	<1	<1	<1	7.0	-
MC-9A	09/20/17	10/20/17	<1	<1	<2	<5	4.4 J	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	4.0	-
MC-9B	09/20/17	10/20/17	<1	<1	<2	<5	3.5 J	<1	<1	<1	<5	4.1	<1	<5	<1	1.4	<1	9.0	-
MC-9C	09/20/17	10/20/17	<1	<1	0.3 J	<5	3.5 J	<1	<1	0.3 J	<5	8.8	<1	<5	<1	2.5	<1	15	-
MC-11A	09/21/17	10/18/17	<1	<1	0.3 J	<5	4.5 J	<1	<1	0.3 J	2.5 J	15	<1	<5	<1	7.5	<1	30	-
MC-11B	10/26/17	11/13/17	<1	<1	1.2 J	<5	<5	<1	<1	1.2	<5	21	<1	<5	<1	11	<1	34	-
MC-11C	09/27/17	10/18/17	<1	<1	<2	<5	7.0	<1	<1	<1	<5	<1	<1	<5	<1	0.3 J	<1	7.0	<0.4
MC-12B	artesian	10/20/17	<1	<1	16	<5	2.2 J	<1	<1	16	<5	470	<1	<5	0.7 J	35	<1	540	-
MC-12C	artesian	10/20/17	<1	<1	130	<5	<5	<1	<1	130	<5	1.0 J	<1	<5	1.2	0.4 J	12	275	<0.4
PC-1A	09/21/17	10/18/17	<1	<1	<2	<5	3.3 J	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	3.0	-
PC-1B	09/21/17	10/18/17	<1	<1	<2	<5	4.4 J	<1	<1	<1	2.6 J	12	<1	<5	<1	2.6	<1	22	<0.4
PC-1C	09/21/17	10/18/17	<1	<1	<2	<5	5.4	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	5.0	<0.4
PC-3	09/21/17	10/20/17	<1	<1	<2	<5	7.1	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	7.0	<0.4
PC-5B	09/19/17	10/20/17	<2	<2	3.2 J	<10	<10	<2	<2	3.2	<10	430	<2	<10	<2	6.1	<2	443	-
PC-5C	09/19/17	10/20/17	<1	<1	2.6	<5	3.8 J	<1	<1	2.6	<5	<1	0.3 J	0.3	<1	7.5	<1	17	-
PC-6A	06/21/17	10/20/17	<1	<1	<2	<5	5.3	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	5.0	-
PC-6B	09/20/17	10/20/17	<2	<2	40	<10	6.0 J	<2	<2	39	<10	440	<2	<10	1.1 J	42	<2	568	<0.4
PC-6C	09/20/17	10/20/17	<1	<1	<2	<5	7.7	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	8.0	<0.4
PC-7A	09/19/17	10/18/17	<1	<1	<2	<5	3.1 J	<1	<1	<1	3.1 J	150	<1	<5	<1	0.7 J	<1	157	-
PC-7B	09/19/17	10/18/17	<1	<1	<2	<5	2.7 J	<1	<1	<1	2.7 J	170	<1	<5	<1	0.5 J	<1	176	-
PC-7C	09/19/17	10/18/17	0.4 J	<1	7.4	<5	3.1 J	<1	<1	7.2	3.9 J	93	<1	<5	0.2 J	36	<1	151	-
PC-8A	09/20/17	10/19/17	<1	<1	<2	<5	5.9	<1	<1	<1	<5	2.3	<1	<5	<1	<1	<1	8.0	-
PC-8B	09/20/17	10/19/17	<1	<1	<2	<5	3.2 J	<1	<1	<1	2.3 J	24	<1	<5	<1	0.6 J	<1	30	-
PC-8C	09/20/17	10/19/17	<1	<1	3.3	<5	<5	<1	<1	3.3	<5	<1	<1	<5	<1	0.7 J	0.1 J	7.0	-
PC-9	09/21/17	10/20/17	<1	<1	<2	<5	5.0	<1	0.3 J	<1	<5	<1	<1	<5	<1	<1	<1	5.0	<0.4
PC-10B	09/21/17	10/18/17	<1	<1	<2	<5	4.7 J	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	5.0	<0.4
PC-10C	09/21/17	10/18/17	<1	<1	<2	<5	4.9 J	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	5.0	<0.4
PC-12A	09/19/17	10/17/17	<1	<1	<2	<5	2.3 BJ	<1	<1	<1	<5	7.6	<1	<5	<1	<1	<1	10	-
PC-12B	09/27/17	10/17/17	<1	1.8	<2	<5	5.1	0.9 J	<1	<1	<5	<1	<1	<5	<1	<1	<1	8.0	-
PC-12C	09/27/17	10/17/17	<1	0.6 J	<2	<5	11	<1	<1	<1	<5	0.4 J	<1	<5	<1	<1	<1	12	-
Port Washington Water District																			
PWSH-1	-	10/16/17	<1	<1	<2	<5	2.4 J	<1	0.2 J	<1	<5	<1	<1	<5	<1	<1	<1	3.0	-
PWSH-2	-	10/16/17	<1	<1	<2	<5	2.5 J	<1	<1	<1	<5	<1	<1	<5	<1	<1	<1	3.0	-
NYSDEC TOGS 1.1.1 Class GA Standard/Guidance Values			5.0	0.6	n/a	n/a	50	5.0	7.0	5.0	50	5.0	5.0	n/a	5.0	5.0	2.0	n/a	n/a

Notes:
J - Laboratory estimated value
B - Analyte was detected in associated laboratory blank
n/a - No value established
*Analysis of 1,4 Dioxane was requested for select wells only.
Gray-shaded cells exceed TOGS Standard/Guidance values.

The chemicals listed below were reported below the LRL:

1,1 Dichloroethane	2-Hexanone	c 1,3 Dichloropropene	Dibromochloromethane	Styrene
1,1,1 Trichloroethane	Benzene	Carbon Disulfide	Ethylbenzene	t 1,3 Dichloropropene
1,1,2 Trichloroethane	Bromodichloromethane	Carbon Tetrachloride	m + p Xylene	Xylenes Total
1,1,2,2 Tetrachloroethane	Bromoform	Chlorobenzene	Methylene Chloride	
1,2 Dichloropropane	Bromomethane	Chloromethane	o-Xylene	

TABLE 3

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
Site # 130081

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Surface Water Analytical Results (µg/L)
TestAmerica, Inc.
Method: SW8260C

Location	Sample Collection Date	1,2 Dichloroethane	1,2 Dichloroethene	Acetone	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethylene	Total VOCs
Baxter Brook								
MC-SFC-1	10/16/17	**1.0 J**	**1.6 J**	**2.6 J**	**1.6**	**3.1**	<1	**10**
MC-SFC-2	10/16/17	**0.3 J**	**0.3 J**	**2.5 J**	**0.3 J**	**4.2**	<1	**8.0**
MC-SFC-3	10/16/17	<1	**2.8**	**2.4 J**	**2.8**	**11**	**1.4**	**20**
MC-SFC-4	10/16/17	<1	**0.3 J**	**2.8 J**	**0.3 J**	**2.8**	**0.5 J**	**7.0**
Baxter Pond								
MC-BAX-1	10/16/17	<1	**0.3 J**	**1.9 J**	**0.3 J**	**2.6**	**0.4 J**	**6.0**
MC-BAX-2	10/16/17	<1	**0.2 J**	**3.1 J**	<1	**1.4**	**0.2 J**	**5.0**
MC-BAX-3	10/16/17	<1	**0.3 J**	**2.6 J**	**0.3 J**	**1.7**	**0.3 J**	**5.0**
NYSDEC TOGS 1.1.1 Class C Standard/Guidance Values		n/a	n/a	n/a	**5.0**	**1.0**	**40**	n/a

Notes:
J - Laboratory estimated value
n/a - No value established
Gray-shaded cells exceed TOGS Standard/Guidance values.

The chemicals listed below were reported below the LRL:

1,1 Dichloroethane	Bromomethane	Methylene Chloride
1,1 Dichloroethene	c 1,3 Dichloropropene	MEK (2-Butanone)
1,1,1 Trichloroethane	Carbon Disulfide	o-Xylene
1,1,2 Trichloroethane	Carbon Tetrachloride	Styrene
1,1,2,2 Tetrachloroethane	Chlorobenzene	Toluene
1,2 Dichloropropane	Chloroethane	Total BTEX
2-Hexanone	Chloromethane	t 1,3 Dichloropropene
4-Methyl-2-Pentanone	Chloroform	trans-1,2-Dichloroethene
Benzene	Dibromochloromethane	Vinyl Chloride
Bromodichloromethane	Ethylbenzene	Xylenes Total
Bromoform	m + p Xylene	

TABLE 4

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
Site # 130081

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

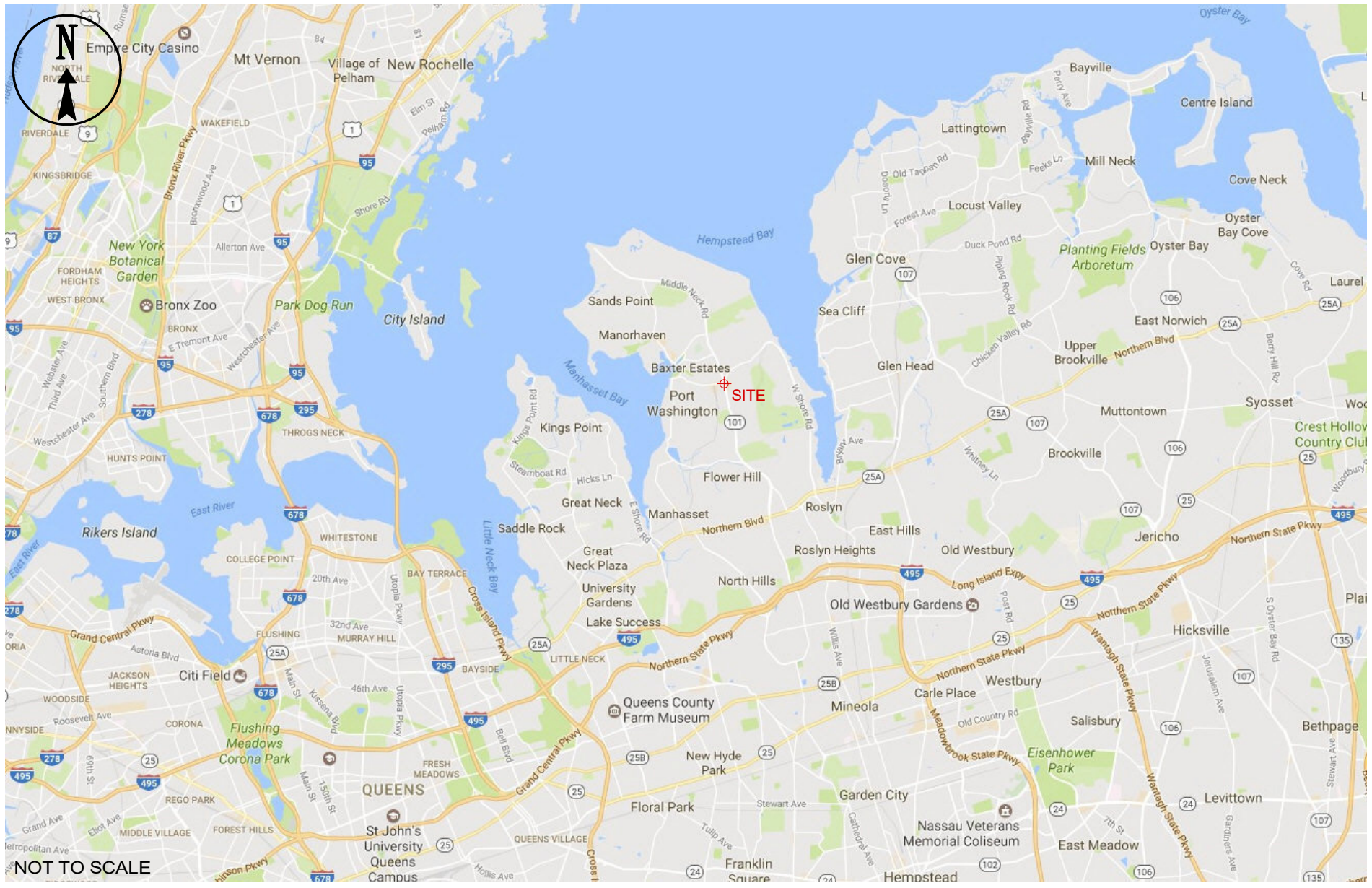
Groundwater Analytical Results (µg/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	Date Collected	1,2 Dichloroethane	Acetone	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethylene
MC-12B	10/20/17	**16**	**2.2 J**	**16**	**470**	**0.7 J**	**35**
MC-12X	10/20/17	**16**	<5	**16**	**410**	**0.8 J**	**34**
Relative Percent Difference		**0.0%**	-	**0.0%**	**13.6%**	-	**2.9%**
MC-BAX-1	10/16/17	**0.3 J**	**1.9 J**	**0.3 J**	**2.6**	<1	**0.4 J**
MC-BAX-X	10/16/17	**0.3 J**	**2.5 J**	**0.3 J**	**2.5**	<1	**0.4 J**
Relative Percent Difference		-	-	-	**3.9%**	**0.0%**	-
MW-3	10/17/17	**1.8 J**	**3.7 BJ**	**1.8**	**250**	<1	**2.2**
MW-X	10/17/17	**1.8 J**	<5	**1.8**	**250**	<1	**2.4**
Relative Percent Difference		-	-	**0.0%**	**0.0%**	**0.0%**	**8.7%**
PC-10B	10/18/17	<2	**4.7 J**	<1	<1	<1	<1
PC-10X	10/18/17	<2	**4.5 J**	<1	<1	<1	<1
Relative Percent Difference		**0.0%**	-	**0.0%**	**0.0%**	**0.0%**	**0.0%**

Notes:
J - indicates a laboratory estimated value
B - Analyte was detected in associated laboratory blank
Laboratory estimated values are not compared in RPD analysis.
Analytes not included above were reported below laboratory reporting limits.

Figures

FIGURE 1

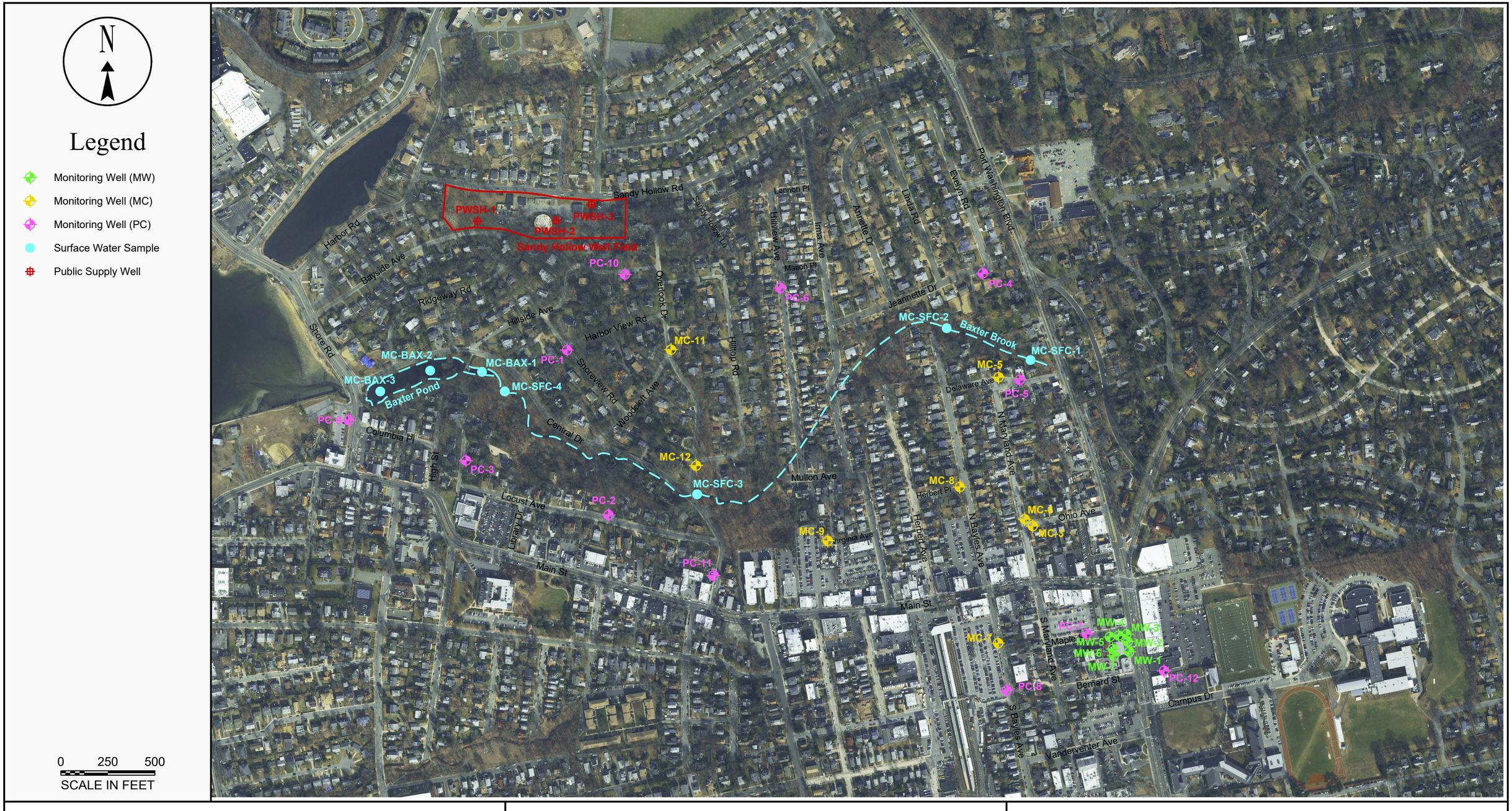


ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Site Location Map

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
NYSDEC Site # 130081

FIGURE 2



ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Site Map

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
NYSDEC Site # 130081

FIGURE 3

MC-11A

	08/02/12	05/23/13	11/05/13	11/05/14	10/28/15	09/22/16	10/18/17
PCE	15	27	37	12	29	20	15
TCE	8.8	13	16	4.8	10	8	7.5
Cis-1,2-DCE	nd	0.51 J	0.53 J	0.23 J	nd	nd	0.33 J

MC-11B

	08/02/12	05/23/13	11/05/13	11/05/14	10/28/15	09/22/16	11/13/17
PCE	46	7.7	8.6	28	33	14	21
TCE	30	15	12	21	32	11	11
Cis-1,2-DCE	1.4	0.72 J	0.59 J	0.91 J	1.3	0.62 J	1.2

MC-11C

	08/02/12	05/23/13	11/05/13	11/05/14	10/28/15	09/22/16	10/18/17
PCE	1.5	nd	2.9	0.29 J	nd	nd	<1
TCE	nd	0.19 J	2.8	0.40 J	nd	nd	0.25 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-10B

	08/02/12	05/23/13	11/05/13	11/06/14	10/28/15	09/22/16	10/18/17
PCE	0.76 J	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-10C

	08/02/12	05/23/13	11/05/13	11/06/14	10/28/15	09/22/16	10/18/17
PCE	0.41 J	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-6A

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	0.86 J	0.10 J	1.3	0.16 J	nd	nd	<1
TCE	0.60 J	nd	1.8	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-6B

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	1,400 E	740	640	630	670	660	440
TCE	42	24	22	45	46	46	42
Cis-1,2-DCE	30	21	19	38	42	46	39

PC-6C

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	1.3	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-5B

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/20/17
PCE	400 E	300	350	340	300	1.3	430
TCE	7	9.2	8.4	6.9	5.8	2.2	6.1
Cis-1,2-DCE	4.8	13	9	7.7	7	nd	3.2

PC-5C

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/20/17
PCE	620 E	410	380	310	290	260	<1
TCE	17	10	10	7.7	19	11	7.5
Cis-1,2-DCE	35	23	19	17	15	11	2.6

PC-1A

	08/02/12	05/23/13	11/05/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	1	nd	nd	nd	0.35 J	nd	<1
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-1B

	08/02/12	05/23/13	11/05/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	6.1	6	13	30	27	21	12
TCE	0.75 J	0.56 J	1.4	3.3	2.8	2.6	2.6
Cis-1,2-DCE	nd	nd	nd	nd	0.39 J	0.29 J	<1

PC-1C

	08/02/12	05/23/13	11/05/13	11/06/14	10/29/15	09/22/16	10/20/17
PCE	0.66 J	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-5

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	120	89	90	50	63	20	24
TCE	1.2	0.61 J	0.78 J	0.37 J	0.80 J	0.48 J	0.29 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-8A

	08/02/12	05/23/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	10	7.3	5	4.9	3.2	52	1.1
TCE	nd	0.15 J	nd	nd	nd	0.58 J	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-8B

	08/02/12	05/23/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	16	63	25	18	9.7	26	13
TCE	nd	0.48 J	nd	nd	nd	0.26 J	<1
Cis-1,2-DCE	nd	21	nd	nd	nd	nd	<1

MC-8C

	08/02/12	05/23/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	21	58	nd	13	11	32	2.5
TCE	nd	0.73 J	1.9	0.31 J	nd	0.33 J	<1
Cis-1,2-DCE	nd	nd	3	nd	nd	nd	<1

PC-7A

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/18/17
PCE	170	210	99	160	120	94	150
TCE	2.1	0.53 J	0.33 J	0.46 J	0.27 J	23	0.66 J
Cis-1,2-DCE	0.47 J	nd	nd	nd	nd	4.7	<1

PC-7B

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/18/17
PCE	93	11	12	41	37	94	170
TCE	0.46 J	0.18 J	0.13 J	0.21 J	nd	24	0.48 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	4.7	<1

PC-7C

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/18/17
PCE	63	62	80	53	41	95	93
TCE	4.4	5.6	7.9	6.6	6.1	21	36
Cis-1,2-DCE	0.51 J	0.78 J	1.2	1.1	0.90 J	4.3	7.2

MW-1

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	51	4.3	3.4	22	13	nd	5	9.3
TCE	nd	0.18 J	nd	nd	nd	nd	<1	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1	<1

MW-2

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	35	1.7	0.42 J	4.2	9.9	3.2	0.58 J	2.6
TCE	0.54	35	0.43 J	0.79 J	0.23 J	0.79 J	<1	1.5
Cis-1,2-DCE	0.78 J	38	nd	10	nd	1.1	<1	1.5

MW-3

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	88	100	49	140	24	82	53	250
TCE	0.62 J	0.52 J	0.33 J	0.56 J	0.26 J	1	0.56 J	2.2
Cis-1,2-DCE	0.58 J	0.24 J	nd	0.28 J	nd	0.73 J	0.27 J	1.8 J

MW-4

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	18	50	22	9.5	78	44	100	5.7
TCE	nd	nd	0.27 J	0.29 J	0.41 J	0.25 J	<1	0.29 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1	<1

MW-5

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	2	3.7	3.9	5.6	3.5	2.7	7.6	100
TCE	nd	0.18 J	nd	nd	nd	nd	<1	0.66 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1	<1

MW-6

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	2	3.7	3.9	5.6	3.5	2.7	7.6	2.4
TCE	nd	0.18 J	nd	nd	nd	nd	<1	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1	<1

MW-7

	07/31/12	11/05/13	11/06/14	10/29/15	03/16/16	09/21/16	05/03/17	10/17/17
PCE	2	3.7	3.9	5.6	3.5	2.7	7.6	8
TCE	nd	0.18 J	nd	nd	nd	nd	<1	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1	<1

PC-9

	08/02/12	05/24/13	11/05/13	11/06/14	10/28/15	09/22/16	10/20/17
PCE	1.1	0.82 J	1.1	0.76 J	1.2	1	<1
TCE	nd	0.13 J	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-3

	08/02/12	05/23/13	11/05/13	11/06/14	10/28/15	09/22/16	10/20/17
PCE	nd	0.26 J	0.32 J	0.19 J	nd	0.25 J	<1
TCE	nd	0.11 J	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-12B

	08/02/12	05/24/13	11/05/13	11/05/14	10/28/15	09/22/16	10/20/17
PCE	1,000 E	540	370	0.13 J	690	nd	470
TCE	27	40	47	0.79 J	22	nd	35
Cis-1,2-DCE	21	57	190	140	19	63	16

MC-12C

	08/02/12	05/24/13	11/05/13	11/05/14	10/28/15	09/22/16	10/20/17
PCE	260 E	1.8	0.31 J	410	50	660	0.97 J
TCE	47	47	nd	25	26	16	0.35 J
Cis-1,2-DCE	5.6	3.2	0.79 J	53	120	15	130

MC-9A

	08/02/12	05/23/13	11/04/13	11/05/14	10/28/15	09/22/16	10/20/17
PCE	5.9	2	2.8	0.52 J	0.46 J	nd	<1
TCE	nd	0.19 J	0.20 J	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-9B

	08/02/12	05/23/13	11/04/13	11/05/14	10/28/15	09/22/16	10/20/17
PCE	9.8	6.1	5.4	8.7	8.5	7	4.1
TCE	0.52 J	0.48 J	0.54 J	1.1	1.3	1.2	1.4
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

MC-9C

	08/02/12	05/23/13	11/04/13	11/06/14	10/28/15	09/22/16	10/20/17
PCE	31	25	11	28	25	15	8.8
TCE	3.5	3	nd	3.5	4.4	3.4	2.5
Cis-1,2-DCE	nd	0.86 J	nd	0.49 J	0.72 J	0.56 J	0.32 J

MC-6B

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	14	23	20	34	31	16	1.5
TCE	0.66 J	1.3	1.5	0.97 J	0.80 J	0.63 J	0.27 J
Cis-1,2-DCE	nd	1.8	0.25	0.24 J	nd	nd	<1

MC-6C

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	64	15	24	0.20 J	nd	nd	0.12 J
TCE	2.3	1.1	1.5	27	31	34	23
Cis-1,2-DCE	3.4	0.21 J	1.4	2.1	4.8	5.8	7.4

MC-7A

	08/02/12	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	170	170	38	33	37	58	18	41
TCE	0.66 J	0.72 J	0.15 J	nd	0.28 J	0.22 J	0.27 J	0.22 J
Cis-1,2-DCE	0.54 J	0.53 J	nd	nd	nd	nd	nd	<1

MC-7B

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	620 E	450	240	66	57	200	120
TCE	1.3 J	0.92 J	0.79 J	0.26 J	nd	0.64 J	0.54 J
Cis-1,2-DCE	0.50 J	nd	nd	nd	nd	nd	<1

MC-7C

	2012	05/24/13	11/04/13	11/05/14	10/29/15	09/21/16	10/19/17
PCE	na	990	800	890	680	720	340
TCE	na	2.3 J	1.5 J	2.8	1.7 J	1.7 J	1.8
Cis-1,2-DCE	na	1.6 J	1.1 J	1.3 J	nd	nd	0.45 J

PC-8A

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/22/16	10/19/17
PCE	4.2	1.5	1.6	2.5	1.4	4	2.3
TCE	nd	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-8B

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/22/16	10/19/17
PCE	93	58	66	39	36	nd	24
TCE	0.64 J	0.48 J	nd	0.33 J	0.54 J	1.2	0.59 J
Cis-1,2-DCE	nd	nd	nd	nd	nd	3.1	<1

PC-8C

	08/02/12	05/24/13	11/04/13	11/05/14	10/29/15	09/22/16	10/19/17
PCE	1.2	nd	30	nd	nd	48	<1
TCE	4.5	3.3	nd	1.4	1.3	0.46 J	0.70 J
Cis-1,2-DCE	3.5	3.2	nd	2.9	3	nd	3.3

PC-12A

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/17/17
PCE	2	3.7	3.9	5.6	3.5	2.7	7.6
TCE	nd	0.18 J	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-12B

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/17/17
PCE	0.61 J	0.65 J	0.31 J	0.19 J	nd	0.20 J	<1
TCE	0.42 J	0.37 J	nd	0.11 J	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	nd	<1

PC-12C

	08/02/12	05/24/13	11/04/13	11/06/14	10/29/15	09/21/16	10/17/17
PCE	6	4.4	nd	2.2	nd	nd	0.38 J
TCE	nd	0.13 J	nd	0.14 J	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	0.21 J	nd	nd	<1

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results (µg/L)
Monitoring Well Network Samples
October 2017
Test America Laboratories, Inc.

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
NYSDEC Site # 130081

FIGURE 4

N

Legend

- Surface Water Sample
- Public Supply Well
- J — Laboratory Estimated Value
- E — Result Exceeded Instrument Calibration Range
- nd — Not Detected
- na — Not Available
- PCE — Tetrachloroethene
- TCE — Trichloroethylene
- DCE — Dichloroethene (cis-1,2-dichloroethene posted on tables)

Notes:

-Historical analytical results provided by the NYSDEC.

-Red-highlighted values exceed NYSDEC TOGS standard/ guidance values.

0 250 500
SCALE IN FEET

	PWSH-1					
	08/01/12	05/23/13	09/24/14	09/25/15	09/21/16	10/16/17
PCE	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	<1

	PWSH-2					
	08/01/12	05/23/13	09/24/14	09/25/15	09/21/16	10/16/17
PCE	nd	nd	nd	nd	nd	<1
TCE	nd	nd	nd	nd	nd	<1
Cis-1,2-DCE	nd	nd	nd	nd	nd	<1

	MC-BAX-2						
	09/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	1.9	2.4	2.8	2.7	0.74 J	2.3	1.4

	MC-BAX-1						
	09/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	1.8	3.4	4.6	2.3	4.7	2.9	2.6

	MC-BAX-3						
	09/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	3.5	3.2	2.8	3.9	0.77 J	2.2	1.7

	MC-SFC-4						
	07/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	3.9	3.6	11	4.3	9	6.2	2.8

	MC-SFC-2						
	07/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	7.3	6.2	1.1	0.88 J	4.5	1.6	4.2

	MC-SFC-1						
	07/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	5	7	3.8	1.2	1.4	18	3.1

	MC-SFC-3						
	07/12	05/13	11/13	11/14	10/15	09/16	10/17
PCE	3.1	7.1	1.1	8.7	7	10	11

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results (µg/L)
Surface Water & Water District Samples
October 16, 2017
Test America Laboratories, Inc.

Former Munsey Cleaners & Former Plaza Cleaners
1029 Port Washington Boulevard
Port Washington, NY
NYSDEC Site # 130081