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January 19, 2022

Mr. Matthew Hubicki
Project Manager
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

Re: Progress Report – December 2021
Polychrome East Site
City of Yonkers, Westchester County
NYSDEC BCP Site No. C360098

Dear Mr. Hubicki:

This Progress Report has been prepared by AKRF, Inc. (AKRF) on behalf of Avalon Yonkers Sun Sites, LLC (AVB) to summarize the work performed at the Polychrome East site [Brownfield Cleanup Program (BCP) Site No. C360098] located at 80-94 Alexander Street, Yonkers, New York (the Site) during the month of December 2021.

Community Air Monitoring Plan (CAMP) observations were as follows:

- No intrusive soil work occurred below the final cover system at the Site during the December 2021 reporting period.
- On December 1, 2, 14, 15, and 28, 2021, handheld equipment was used to monitor volatile organic compounds (VOCs), oxygen, and hydrogen sulfide (H₂S) during dense non-aqueous phase liquid (DNAPL) coal tar gauging and removal activities, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP). Air monitoring was performed within the work zone. No VOC or H₂S exceedances were recorded during the DNAPL removal activities.

Site Activities:

- During the month of December 2021, no on-Site excavation activities below the final cover system occurred.
- On December 1, 14, and 28, 2021, DNAPL gauging was conducted at NW-1, NW-2, NW-3, NW-4, and NW-5. On December 20, 2021, groundwater gauging was conducted at groundwater monitoring wells MW-A, MW-B, MW-C, and MW-D during the annual groundwater sampling event. DNAPL recovery wells are equipped with 3-foot sumps. DNAPL was detected during the December 2021 monitoring events in NW-3 and NW-4 as summarized below and detailed in the attached Table 1.

Recovery Well ID	DNAPL Thickness 12/1/21 (feet)	DNAPL Thickness 12/14/21 (feet)	DNAPL Thickness 12/28/21 (feet)
NW-3	0.71	0.56	0.35
NW-4	0.21	0.57	0.32

Note: Measured DNAPL thicknesses are estimated.

- During the reporting period, AKRF performed oversight during DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). Measurable DNAPL was removed from recovery wells NW-3 and NW-4 utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the recovery well. DNAPL was removed at NW-3 (~7.5 gallons) on December 2 and 15, 2021 only, as less than 0.5 feet of measurable DNAPL was detected during the December 28, 2021 gauging event (i.e., no DNAPL recovery required). DNAPL was removed at NW-4 (~8 gallons) on December 15, 2021 only, as less than 0.5 feet of measurable DNAPL was detected during the December 1 and 28, 2021 gauging events. The recovered DNAPL was containerized in a Department of Transportation (DOT)-approved 55-gallon drum, labeled as hazardous waste, and staged on-Site in Grid Cell E2 (see Figure 2) for off-site disposal at an appropriate receiving facility. Following DNAPL removal, the vacuum truck was decontaminated using a steam pressure washer with the decontamination fluids drummed on-Site.
- A total of approximately 15.5 gallons of DNAPL were recovered during the reporting period. Since DNAPL removal activities began in December 2019, a total of 461 gallons of DNAPL have been removed. DNAPL recovery totals are summarized in Table 2.
- On December 20, 2021, AKRF performed annual sampling from groundwater monitoring wells MW-A through MW-D in accordance with the SMP. The groundwater samples were collected from groundwater monitoring wells MW-A through MW-D and analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260, TCL semi-volatile organic compounds (SVOCs) by EPA Method 8270D, and Priority Pollutant Metals (total and dissolved) by EPA Method 6020B/7470. The results of this sampling event along with sampling methodology will be submitted in the forthcoming Annual Groundwater Monitoring letter report in January 2022.
- AKRF scheduled the next quarterly inspection of the on-Site sub-slab depressurization system (SSDS) on December 28, 2021; however, due COVID-19 pandemic related field constraints, the quarterly inspection was postponed until January 2022. Details of the next quarterly SSDS inspection will be included in the monthly report for January 2022.

The following work is planned for January:

- AKRF anticipates completing DNAPL gauging and removal in January 2022 using the same methods as described above while long-term trends and alternate recovery methods are evaluated;
- NAPL recovery well monitoring and DNAPL recovery at a frequency of once every two weeks;
- Disposal, as needed, of recovered DNAPL (i.e., coal tar) and used personal protective equipment and field supplies; and
- Complete 4th 2021 Quarterly SSDS inspection.

If you have any questions or require additional information, please contact me at (914) 922-2354.

Sincerely,
AKRF, Inc.



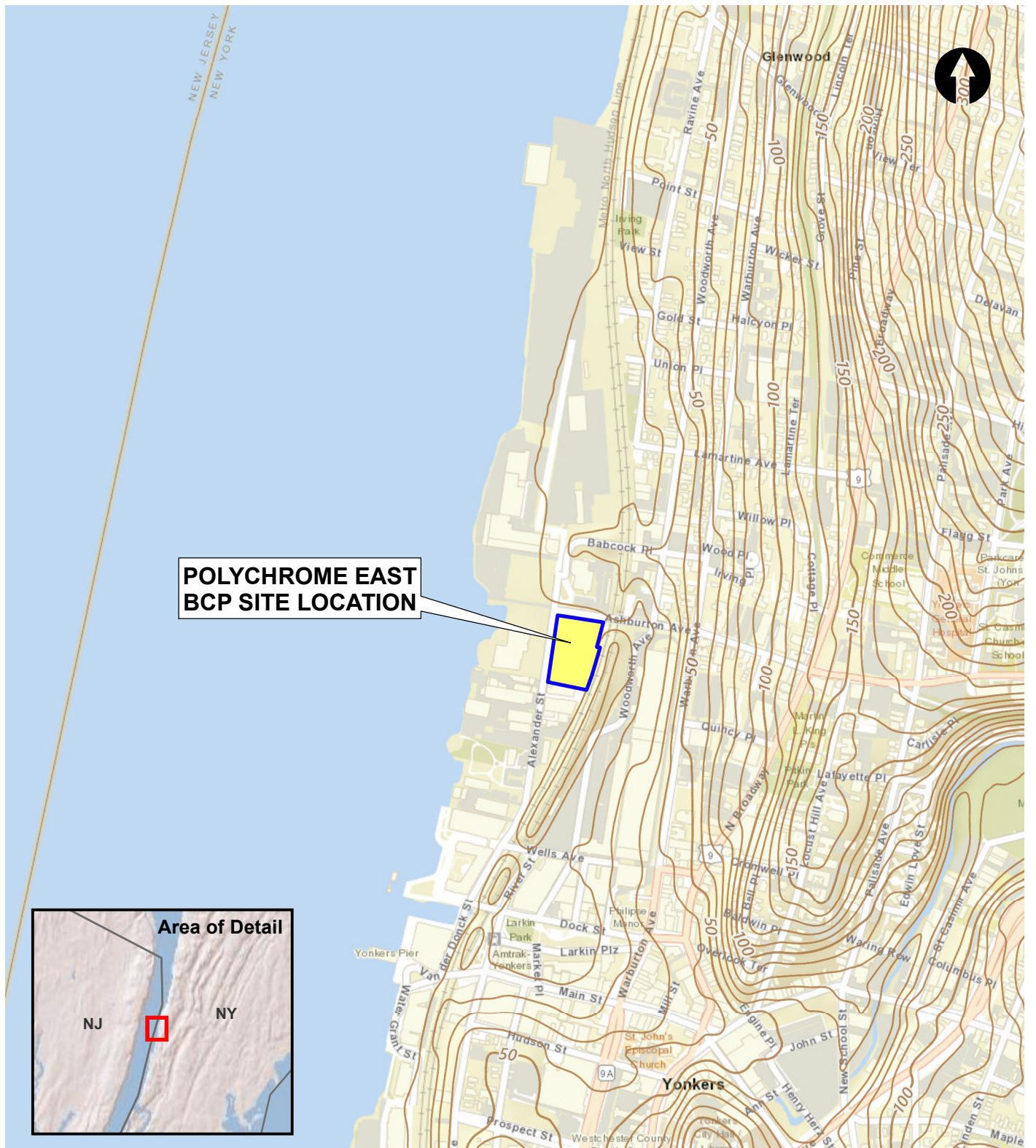
Scott Caporizzo
Technical Director

Encl.: Figure 1 – Site Location Map
 Figure 2 – Site Plan with Reference Grid
 Figure 3 – NAPL Recovery & Groundwater Monitoring Well Location Plan
 Table 1 – Polychrome East Well Gauging Measurements
 Table 2 – Polychrome East DNAPL Recovery Totals

cc (electronic copy only): Kevin Carpenter/Scott Deyette – NYSDEC
 Saria Waugh – NYSDOH
 Glen Moran/Christopher Reynolds/Jon Vogel/Michael Simpson – AVB
 Marc Godick/Steve Grens/Rebecca Kinal – AKRF

ATTACHMENTS

©2019 AKRF Q:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\GIS and Graphics\Hazmat\FER180132_Fig_1_site_loc_map.mxd 12/19/2019 3:07:42 PM mveilleux



Service Layer Credits: ESRI Worldwide Street Map data, 2019.

Map Source - BCP Site Boundary from Paulus, Sokolowski and Sartor Architecture & Engineering, P.C.
 Stamped Survey Drawing Titled "Environmental Easement Area" - dated May 31, 2019.



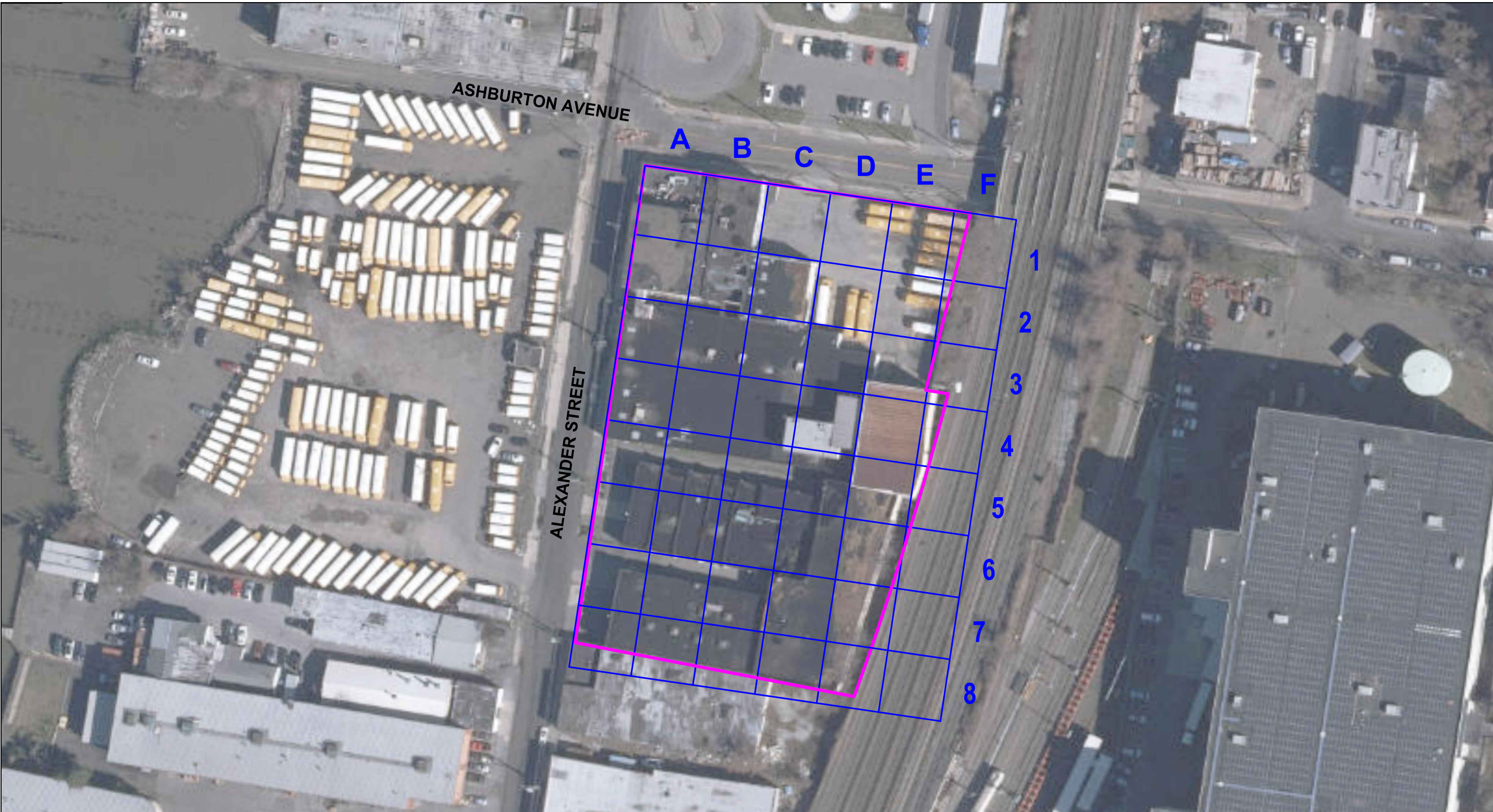
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**Polychrome East
NYSDEC Site (BCP #C360098)
Yonkers, New York**


SITE LOCATION MAP

DATE	12/19/2019
PROJECT NO.	180132
FIGURE	1

©2018 AKRF, Inc Q:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\Hazard\Polychrome East\CAD\180132 Fig 2 WC Grid (Polychrome East).dwg last save: mvilleux 7/18/2018 9:36 AM



LEGEND
 PROJECT SITE BOUNDARY

A
 ALPHANUMERIC GRID



Aerial Source:
 2014 New York Statewide Digital Orthoimagery.



440 Park Avenue South, New York, NY 10016

C360098 - Polychrome East
 80-94 Alexander Street, Yonkers, New York

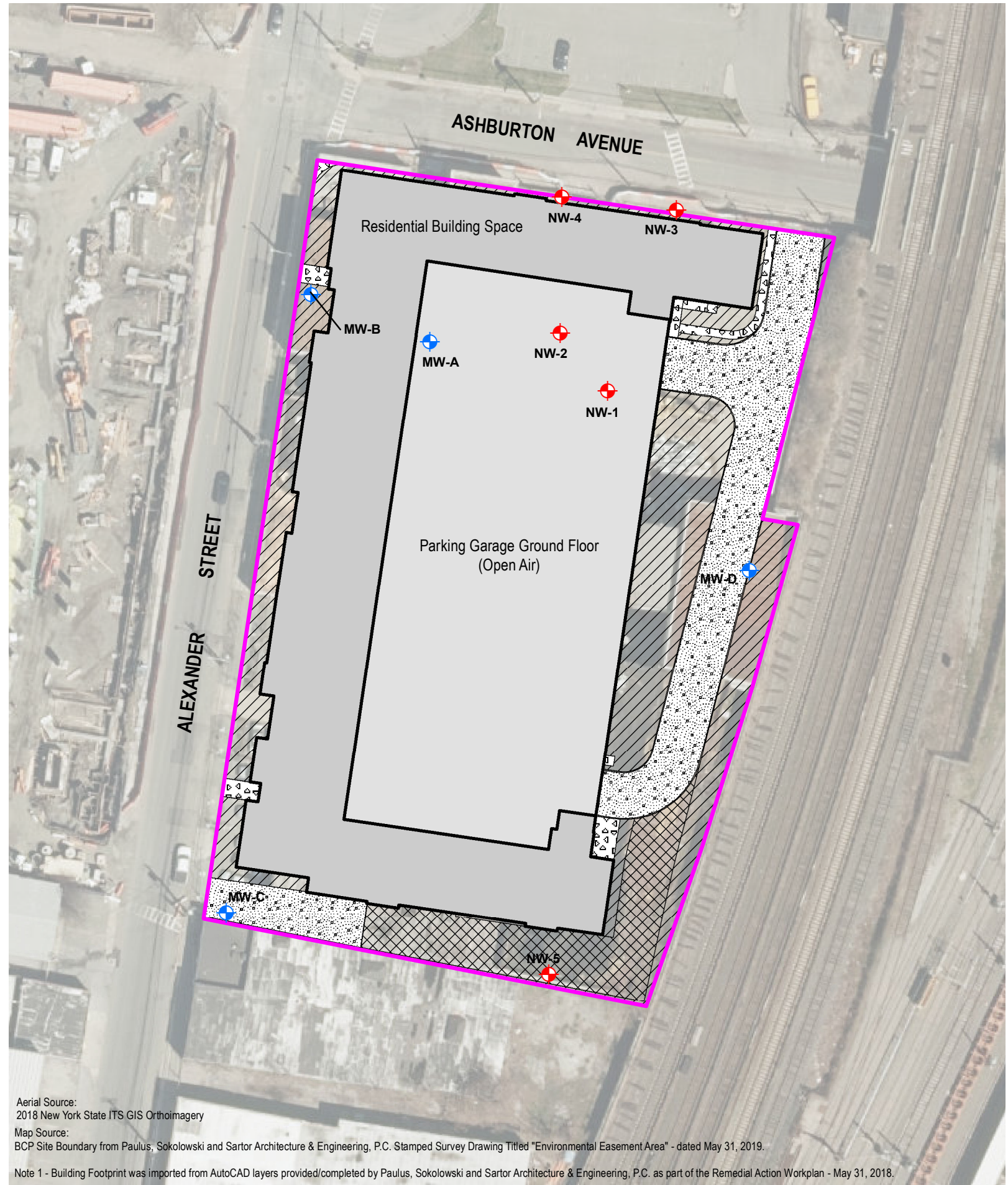
SITE PLAN WITH REFERENCE GRID

DATE
7/18/2018

PROJECT NO.
180132

FIGURE
2

©2019 AKRF, C:\Projects\180132 - AVALONBAY YONKERS - BLD 3 - PCE\Technical\GIS and Graphics\Hazmat\FER180132 Fig 7 NAPL Recovery and GW Wells.mxd 12/20/2019 8:37:10 AM mvelieux



Aerial Source:
2018 New York State ITS GIS Orthoimagery
Map Source:
BCP Site Boundary from Paulus, Sokolowski and Sartor Architecture & Engineering, P.C. Stamped Survey Drawing Titled "Environmental Easement Area" - dated May 31, 2019.
Note 1 - Building Footprint was imported from AutoCAD layers provided/completed by Paulus, Sokolowski and Sartor Architecture & Engineering, P.C. as part of the Remedial Action Workplan - May 31, 2018.

LEGEND

- BCP SITE BOUNDARY
- RESIDENTIAL BUILDING SPACE
- PARKING GARAGE (OPEN AIR)
- SIDEWALK
- GRASS PAVER
- ASPHALT
- LANDSCAPED
- NAPL RECOVERY WELL LOCATION
- GROUNDWATER MONITORING WELL LOCATION



Table 1
Polychrome East
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
MW-A	10/7/2020	10:10	ND	9.92	ND	15.50	NA	NA	
	10/21/2020	7:35	ND	9.54	ND	15.45	NA	NA	
	11/4/2020	5:25	ND	9.53	ND	15.60	NA	NA	
	11/18/2020	8:10	ND	9.63	ND	16.12	NA	NA	
	12/1/2020	8:55	ND	9.43	ND	15.51	NA	NA	
	12/16/2020	7:30	ND	8.55	ND	15.48	NA	NA	
	12/29/2020	7:30	ND	9.58	ND	15.52	NA	NA	
	1/13/2021	8:15	ND	9.72	ND	15.56	NA	NA	
	1/27/2021	7:15	ND	9.93	ND	15.12	NA	NA	
	2/8/2021	7:30	ND	9.60	ND	15.50	NA	NA	
	2/24/2021	12:50	ND	9.47	ND	15.50	NA	NA	
	3/10/2021	9:00	ND	9.85	ND	15.56	NA	NA	
	3/24/2021	8:36	ND	9.92	ND	15.56	NA	NA	
	4/7/2021	7:45	ND	9.77	ND	15.50	NA	NA	
	4/21/2021	8:30	ND	9.65	ND	15.51	NA	NA	
	5/5/2021	9:10	ND	9.51	ND	15.46	NA	NA	
	5/17/2021	8:05	ND	9.69	ND	15.44	NA	NA	
6/2/2021	8:37	ND	9.48	ND	15.46	NA	NA		
6/16/2021	9:19	ND	9.37	ND	15.58	NA	NA		
6/30/2021	8:10	ND	9.63	ND	15.55	NA	NA		
7/14/2021	7:47	ND	8.80	ND	15.57	NA	NA		
7/27/2021	7:38	ND	8.45	ND	15.48	NA	NA		
12/20/2021	9:55	ND	10.16	ND	15.57	NA	NA		
MW-B	10/7/2020	9:50	ND	6.76	ND	16.62	NA	NA	
	10/21/2020	7:45	ND	6.00	ND	16.25	NA	NA	
	11/4/2020	5:30	ND	6.08	ND	16.33	NA	NA	
	11/18/2020	8:15	ND	6.17	ND	16.31	NA	NA	
	12/1/2020	9:00	ND	5.67	ND	16.29	NA	NA	
	12/16/2020	7:35	ND	6.09	ND	16.18	NA	NA	
	12/29/2020	7:35	ND	5.92	ND	16.23	NA	NA	
	1/13/2021	8:00	ND	6.14	ND	16.31	NA	NA	
	1/27/2021	7:20	ND	6.38	ND	16.34	NA	NA	
	2/8/2021	7:50	ND	6.32	ND	17.31	NA	NA	
	2/24/2021	7:15	ND	6.16	ND	16.29	NA	NA	
	3/10/2021	9:10	ND	6.24	ND	16.29	NA	NA	
	3/24/2021	8:32	ND	6.36	ND	16.19	NA	NA	
	4/7/2021	7:50	ND	6.10	ND	16.23	NA	NA	
	4/21/2021	8:35	ND	5.82	ND	16.23	NA	NA	
	5/5/2021	9:03	ND	5.62	ND	16.20	NA	NA	
	5/17/2021	8:10	ND	6.00	ND	16.19	NA	NA	
6/2/2021	8:42	ND	5.44	ND	16.19	NA	NA		
6/16/2021	9:10	ND	5.35	ND	16.32	NA	NA		
6/30/2021	7:55	ND	5.73	ND	16.38	NA	NA		
7/14/2021	7:35	ND	4.79	ND	16.26	NA	NA		
7/27/2021	7:30	ND	4.54	ND	16.29	NA	NA		
12/20/2021	11:40	ND	7.62	ND	16.40	NA	NA		
MW-C	10/7/2020	9:55	ND	6.91	ND	13.83	NA	NA	
	10/21/2020	7:55	ND	6.52	ND	13.84	NA	NA	
	11/4/2020	5:40	ND	6.45	ND	13.91	NA	NA	
	11/18/2020	8:25	ND	6.59	ND	14.19	NA	NA	
	12/1/2020	9:05	ND	6.31	ND	13.84	NA	NA	
	12/16/2020	7:40	ND	6.50	ND	13.85	NA	NA	
	12/29/2020	7:40	ND	6.27	ND	13.60	NA	NA	
	1/13/2021	8:05	ND	6.49	ND	13.71	NA	NA	
	1/27/2021	7:25	ND	6.70	ND	13.93	NA	NA	
	2/8/2021	8:00	ND	6.69	ND	13.86	NA	NA	
	2/24/2021	7:20	ND	6.58	ND	13.92	NA	NA	
	3/10/2021	9:15	ND	6.26	ND	13.88	NA	NA	
	3/24/2021	8:41	ND	6.78	ND	13.82	NA	NA	
	4/7/2021	7:55	ND	6.61	ND	13.82	NA	NA	
	4/21/2021	8:40	ND	6.31	ND	13.82	NA	NA	
	5/5/2021	9:05	ND	6.23	ND	13.84	NA	NA	
	5/17/2021	8:15	ND	6.45	ND	13.75	NA	NA	
6/2/2021	8:47	ND	6.01	ND	13.78	NA	NA		
6/16/2021	9:03	ND	5.79	ND	13.91	NA	NA		
6/30/2021	8:00	ND	6.15	ND	13.89	NA	NA		
7/14/2021	7:40	ND	5.39	ND	13.91	NA	NA		
7/27/2021	7:33	ND	5.48	ND	13.90	NA	NA		
12/20/2021	13:00	ND	7.72	ND	12.16	NA	NA		

Table 1
Polychrome East
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
MW-D	10/7/2020	10:05	ND	7.90	ND	15.60	NA	NA	
	10/21/2020	8:00	ND	7.71	ND	15.65	NA	NA	
	11/4/2020	5:45	ND	7.41	ND	15.69	NA	NA	
	11/18/2020	8:30	ND	7.41	ND	15.98	NA	NA	
	12/1/2020	9:10	ND	7.23	ND	15.72	NA	NA	
	12/16/2020	7:45	ND	7.17	ND	15.57	NA	NA	
	12/29/2020	7:45	ND	7.13	ND	15.60	NA	NA	
	1/13/2021	8:10	ND	7.40	ND	15.70	NA	NA	
	1/27/2021	7:30	ND	7.44	ND	15.62	NA	NA	
	2/8/2021	8:15	ND	7.72	ND	15.63	NA	NA	
	2/24/2021	7:30	ND	7.59	ND	15.59	NA	NA	
	3/10/2021	9:25	ND	7.23	ND	15.54	NA	NA	
	3/24/2021	8:29	ND	7.51	ND	15.53	NA	NA	
	4/7/2021	8:00	ND	7.35	ND	15.58	NA	NA	
	4/21/2021	8:45	ND	7.14	ND	15.59	NA	NA	
	5/5/2021	9:07	ND	7.19	ND	15.56	NA	NA	
	5/17/2021	8:20	ND	7.20	ND	15.54	NA	NA	
	6/2/2021	8:53	ND	6.94	ND	15.56	NA	NA	
	6/16/2021	9:14	ND	6.54	ND	15.64	NA	NA	
	6/30/2021	8:05	ND	7.07	ND	15.66	NA	NA	
7/14/2021	7:43	ND	6.06	ND	15.56	NA	NA		
7/27/2021	7:35	ND	6.41	ND	15.56	NA	NA		
12/20/2021	8:22	ND	7.95	ND	15.64	NA	NA		
NW-1	10/7/2020	10:30	ND	9.30	ND	27.03	NA	NA	
	10/21/2020	8:35	ND	9.06	ND	27.08	NA	NA	
	11/4/2020	6:30	ND	8.90	ND	27.00	NA	NA	
	11/18/2020	10:15	ND	8.93	ND	28.22	NA	NA	
	12/1/2020	9:55	ND	8.70	ND	27.05	NA	NA	
	12/16/2020	8:50	ND	8.77	ND	26.89	NA	NA	
	12/29/2020	8:40	ND	8.59	ND	26.97	NA	NA	
	1/13/2021	8:25	ND	8.89	ND	26.98	NA	NA	
	1/27/2021	8:40	ND	8.95	ND	26.98	NA	NA	
	2/8/2021	9:35	ND	9.08	ND	27.02	NA	NA	
	2/24/2021	8:40	ND	8.98	ND	26.97	NA	NA	
	3/10/2021	9:50	ND	8.76	ND	27.04	NA	NA	
	3/24/2021	8:53	ND	8.92	ND	27.04	NA	NA	
	4/7/2021	8:05	ND	8.81	ND	27.62	NA	NA	
	4/21/2021	8:50	ND	8.43	ND	27.02	NA	NA	
	5/5/2021	9:12	ND	8.55	ND	26.96	NA	NA	
	5/17/2021	9:15	ND	8.61	ND	26.90	NA	NA	
	6/2/2021	9:04	ND	8.16	ND	26.91	NA	NA	
	6/16/2021	9:19	ND	8.02	ND	27.19	NA	NA	
	6/30/2021	9:16	ND	8.39	ND	26.99	NA	NA	
	7/14/2021	8:35	ND	7.54	ND	26.97	NA	NA	
	7/27/2021	7:43	ND	7.51	ND	26.85	NA	NA	
	8/11/2021	10:50	ND	8.19	ND	26.97	NA	NA	
	8/23/2021	9:25	ND	6.93	ND	27.02	NA	NA	
	9/8/2021	9:02	ND	6.99	ND	27.03	NA	NA	
	9/21/2021	10:38	ND	8.03	ND	27.04	NA	NA	
	10/7/2021	9:20	ND	8.29	ND	26.97	NA	NA	
	10/20/2021	7:15	ND	8.50	ND	27.03	NA	NA	
11/4/2021	9:55	ND	7.81	ND	27.03	NA	NA		
11/17/2021	8:15	ND	8.16	ND	27.03	NA	NA		
12/1/2021	8:55	ND	8.83	ND	26.99	NA	NA		
12/14/2021	7:50	ND	9.23	ND	26.98	NA	NA		
12/28/2021	9:30	ND	9.34	ND	27.02	NA	NA		
NW-2	10/7/2020	10:55	ND	9.11	ND	24.62	NA	NA	
	10/21/2020	8:30	ND	9.01	ND	24.73	NA	NA	
	11/4/2020	6:40	ND	9.00	ND	24.77	NA	NA	
	11/18/2020	10:10	ND	9.06	ND	25.69	NA	NA	
	12/1/2020	9:50	ND	8.62	ND	24.82	NA	NA	
	12/16/2020	8:55	ND	8.86	ND	24.66	NA	NA	
	12/29/2020	8:45	ND	8.79	ND	24.68	NA	NA	
	1/13/2021	8:20	ND	9.93	ND	24.72	NA	NA	
	1/27/2021	8:45	ND	8.99	ND	24.66	NA	NA	
	2/8/2021	9:40	ND	9.24	ND	24.71	NA	NA	
	2/24/2021	8:50	ND	9.06	ND	24.56	NA	NA	
	3/10/2021	9:55	ND	8.98	ND	24.68	NA	NA	
	3/24/2021	8:50	ND	8.99	ND	24.62	NA	NA	
	4/7/2021	8:10	ND	8.87	ND	24.54	NA	NA	
	4/21/2021	8:55	ND	8.58	ND	24.61	NA	NA	
	5/5/2021	9:15	ND	8.59	ND	25.61	NA	NA	
	5/17/2021	9:10	ND	8.77	ND	24.54	NA	NA	
	6/2/2021	9:04	ND	8.44	ND	24.53	NA	NA	
	6/16/2021	9:25	ND	8.19	ND	24.66	NA	NA	
	6/30/2021	9:12	ND	8.50	ND	24.63	NA	NA	
7/14/2021	8:40	ND	7.66	ND	24.57	NA	NA		

Table 1
Polychrome East
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-2 (cont.)	7/27/2021	7:41	ND	7.76	ND	24.57	NA	NA	
	8/11/2021	10:55	ND	8.38	ND	24.68	NA	NA	
	8/23/2021	9:20	ND	7.74	ND	24.59	NA	NA	
	9/8/2021	9:04	ND	7.18	ND	24.64	NA	NA	
	9/21/2021	10:39	ND	8.29	ND	24.63	NA	NA	
	10/7/2021	9:25	ND	8.50	ND	24.57	NA	NA	
	10/20/2021	7:20	ND	8.62	ND	24.61	NA	NA	
	11/4/2021	10:00	ND	8.00	ND	24.64	NA	NA	
	11/17/2021	8:20	ND	8.49	ND	24.66	NA	NA	
	12/1/2021	9:00	ND	9.00	ND	24.59	NA	NA	
	12/14/2021	7:55	ND	9.37	ND	24.63	NA	NA	
	12/28/2021	9:40	ND	9.33	ND	24.62	NA	NA	
NW-3	10/7/2020	11:45	ND	6.30	16.01	18.58	NA	2.57	Pre-pumping measurement
	10/14/2020	8:00	ND	6.20	ND	18.40	NA	NA	Post-pumping measurement ~4 -gallons removed
	10/21/2020	10:10	ND	6.26	15.04	18.63	NA	3.59	Pre-pumping measurement
	10/21/2020	12:45	ND	6.26	ND	18.63	NA	NA	Post-pumping measurement ~5 -gallons removed
	11/4/2020	8:00	ND	6.30	15.55	18.72	NA	3.17	Pre-pumping measurement
	11/5/2020	8:15	ND	6.35	ND	18.74	NA	NA	Post-pumping measurement ~4 -gallons removed
	11/18/2020	11:05	ND	7.42	16.14	18.96	NA	2.82	
	11/19/2020	7:45	ND	7.41	16.12	18.95	NA	2.83	Pre-pumping measurement
	11/19/2020	8:00	ND	7.43	ND	18.97	NA	NA	Post-pumping measurement ~10 -gallons removed
	12/1/2020	10:30	ND	6.11	15.40	18.69	NA	3.29	Pre-pumping measurement
	12/2/2020	8:35	ND	6.09	ND	18.72	NA	NA	Post-pumping measurement ~30 -gallons removed
	12/16/2020	10:30	ND	6.21	16.25	18.68	NA	2.43	Pre-pumping measurement
	12/18/2020	9:45	ND	6.40	ND	18.62	NA	NA	Post-pumping measurement ~3 -gallons removed
	12/29/2020	10:30	ND	6.20	17.70	18.65	NA	0.95	
	12/30/2020	8:15	ND	6.19	17.70	18.65	NA	0.95	Pre-pumping measurement
	12/30/2020	8:45	ND	6.17	ND	18.65	NA	NA	Post-pumping measurement ~3 -gallons removed
	1/13/2021	9:55	ND	6.18	15.21	18.65	NA	3.44	
	1/14/2021	7:40	ND	6.18	15.05	18.65	NA	3.60	Pre-pumping measurement
	1/14/2021	7:50	ND	6.54	ND	18.65	NA	NA	Post-pumping measurement ~5 -gallons removed
	1/27/2021	10:25	ND	6.36	16.40	18.73	NA	2.33	
	1/28/2021	7:50	ND	6.60	16.40	18.73	NA	2.33	Pre-pumping measurement
	1/28/2021	7:55	ND	6.70	ND	18.73	NA	NA	Post-pumping measurement ~4 -gallons removed
	2/8/2021	10:30	ND	6.35	16.91	18.60	NA	1.69	
	2/11/2021	9:45	ND	6.36	16.95	18.60	NA	1.65	Pre-pumping measurement
	2/11/2021	10:00	ND	6.40	ND	18.60	NA	NA	Post-pumping measurement ~3 -gallons removed
	2/24/2021	10:00	ND	6.30	16.75	18.59	NA	1.84	
	2/25/2021	7:40	ND	6.32	16.75	18.59	NA	1.84	Pre-pumping measurement
	2/25/2021	7:45	ND	6.33	ND	18.60	NA	NA	Post-pumping measurement ~3 -gallons removed
	3/10/2021	11:10	ND	6.26	16.42	18.70	NA	2.28	
	3/11/2021	7:55	ND	6.25	16.22	18.70	NA	2.28	Pre-pumping measurement
	3/11/2021	8:10	ND	6.26	ND	18.71	NA	NA	Post-pumping measurement ~3 gallons removed
	3/24/2021	9:43	ND	6.28	17.55	18.60	NA	1.05	
	3/25/2021	8:20	ND	6.19	17.45	18.61	NA	1.16	Pre-pumping measurement
	3/25/2021	8:30	ND	6.18	ND	18.64	NA	NA	Post-pumping measurement ~4 gallons removed
	4/7/2021	8:15	ND	6.22	17.74	18.69	NA	0.95	
	4/8/2021	6:50	ND	6.21	17.68	18.69	NA	NA	Pre-pumping measurement
	4/8/2021	7:44	ND	6.26	ND	18.65	NA	NA	Post-pumping measurement ~6.5 gallons removed
	4/21/2021	9:00	ND	6.16	17.79	18.64	NA	0.85	
	4/22/2021	7:20	ND	6.18	17.40	18.64	NA	1.24	Pre-pumping measurement
	4/22/2021	7:40	ND	6.21	ND	18.64	NA	NA	Post-pumping measurement ~9 gallons removed
	5/5/2021	10:20	ND	6.21	16.75	18.63	NA	1.88	
	5/6/2021	8:00	ND	6.22	17.81	18.63	NA	0.82	Pre-pumping measurement
	5/6/2021	8:45	ND	6.24	ND	18.64	NA	NA	Post-pumping measurement ~9 gallons removed
	5/17/2021	10:10	ND	6.19	16.80	18.65	NA	1.85	
	5/20/2021	8:00	ND	6.20	16.77	18.64	NA	1.87	Pre-pumping measurement
	5/20/2021	8:20	ND	6.26	ND	18.68	NA	NA	Post-pumping measurement ~5 gallons removed
	6/2/2021	10:10	ND	6.03	16.31	18.64	NA	2.33	
6/3/2021	7:45	ND	6.00	16.30	18.64	NA	2.34	Pre-pumping measurement	
6/3/2021	8:00	ND	6.06	ND	18.64	NA	NA	Post-pumping measurement ~5.5 gallons removed	
6/16/2021	10:15	ND	6.00	16.51	18.71	NA	2.20		
6/17/2021	7:15	ND	6.02	16.50	18.67	NA	2.17	Pre-pumping measurement	
6/17/2021	7:55	ND	6.05	ND	18.67	NA	NA	Post-pumping measurement ~1.5 gallons removed	
6/30/2021	10:25	ND	6.15	17.10	18.72	NA	1.62		
7/1/2021	7:25	ND	6.15	17.10	18.72	NA	1.62	Pre-pumping measurement	
7/1/2021	7:30	ND	6.18	ND	18.72	NA	NA	Post-pumping measurement ~3.4 gallons removed	

Table 1
Polychrome East
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-3 (cont.)	7/14/2021	10:00	ND	5.73	17.29	18.73	NA	1.44	
	7/15/2021	8:15	ND	6.05	17.30	18.71	NA	1.41	Pre-pumping measurement
	7/15/2021	8:45	ND	6.15	ND	18.71	NA	NA	Post-pumping measurement ~4.25 gallons removed
	7/27/2021	9:50	ND	5.76	17.30	18.68	NA	1.38	
	7/29/2021	7:20	ND	6.14	17.30	18.68	NA	1.38	Pre-pumping measurement
	7/29/2021	7:35	ND	6.23	ND	18.68	NA	NA	Post-pumping measurement ~5.95 gallons removed
	8/11/2021	12:10	ND	6.25	16.65	18.71	NA	2.06	
	8/12/2021	7:45	ND	6.23	16.65	18.71	NA	2.06	Pre-pumping measurement
	8/12/2021	7:55	ND	6.25	ND	18.71	NA	NA	Post-pumping measurement ~5.1 gallons removed
	8/23/2021	11:50	ND	5.58	17.40	18.71	NA	1.31	
	8/24/2021	7:45	ND	5.80	17.40	18.71	NA	1.31	Pre-pumping measurement
	8/24/2021	7:55	ND	5.82	ND	18.71	NA	NA	Post-pumping measurement ~1.3 gallons removed
	9/8/2021	10:30	ND	5.72	16.65	18.75	NA	2.10	
	9/9/2021	8:00	ND	5.71	16.65	18.75	NA	2.10	Pre-pumping measurement
	9/9/2021	8:15	ND	5.75	ND	18.75	NA	NA	Post-pumping measurement ~4.3 gallons removed
	9/21/2021	11:45	ND	6.10	16.15	18.71	NA	2.56	
	9/23/2021	7:30	ND	6.16	16.15	18.71	NA	2.56	Pre-pumping measurement
	9/23/2021	8:00	ND	6.40	ND	18.71	NA	NA	Post-pumping measurement ~3 gallons removed
	10/7/2021	11:24	ND	6.13	17.35	18.65	NA	1.30	
	10/8/2021	7:10	ND	6.11	17.38	18.64	NA	1.26	Pre-pumping measurement
	10/8/2021	8:10	ND	6.21	ND	18.64	NA	NA	Post-pumping measurement ~4 gallons removed
	10/20/2021	11:00	ND	6.18	18.00	18.66	NA	0.66	
	10/21/2021	7:50	ND	6.18	18.00	18.66	NA	0.66	Pre-pumping measurement
	10/21/2021	8:15	ND	6.21	ND	18.66	NA	NA	Post-pumping measurement ~1.5 gallons removed
	11/4/2021	13:05	ND	6.01	17.95	18.74	NA	0.79	
	11/5/2021	7:45	ND	6.04	17.79	18.73	NA	0.94	Pre-pumping measurement
	11/5/2021	8:10	ND	6.14	ND	18.73	NA	NA	Post-pumping measurement ~5.5 gallons removed
	11/17/2021	9:40	ND	6.22	17.90	18.73	NA	0.83	
	11/19/2021	9:20	ND	6.25	17.90	18.73	NA	0.83	Pre-pumping measurement
	11/19/2021	9:50	ND	6.26	ND	18.73	NA	NA	Post-pumping measurement ~3.5 gallons removed
	12/1/2021	11:15	ND	6.25	18.01	18.72	NA	0.71	
	12/2/2021	8:10	ND	6.40	18.01	18.72	NA	0.71	Pre-pumping measurement
12/2/2021	8:25	ND	6.42	ND	18.72	NA	NA	Post-pumping measurement ~3.5 gallons removed	
12/14/2021	12:05	ND	6.44	18.15	18.71	NA	0.56		
12/15/2021	9:05	ND	6.43	18.15	18.71	NA	0.56	Pre-pumping measurement	
12/15/2021	9:15	ND	6.45	ND	18.71	NA	NA	Post-pumping measurement ~4 gallons removed	
12/28/2021	9:50	ND	6.39	18.36	18.71	NA	0.35		
NW-4	10/7/2020	11:35	ND	7.41	16.21	17.23	NA	1.02	Pre-pumping measurement
	10/14/2020	7:50	ND	7.33	ND	17.33	NA	NA	Post-pumping measurement ~4 gallons removed
	10/21/2020	9:50	ND	7.27	17.15	17.26	NA	0.11	
	11/4/2020	7:45	ND	7.37	16.07	17.33	NA	1.26	Pre-pumping measurement
	11/5/2020	8:00	ND	7.37	ND	17.35	NA	NA	Post-pumping measurement ~2 gallons removed
	11/18/2020	10:55	ND	7.48	16.25	17.86	NA	1.61	
	11/19/2020	8:15	ND	7.46	16.27	17.84	NA	1.57	Pre-pumping measurement
	11/19/2020	8:30	ND	7.48	ND	17.87	NA	NA	Post-pumping measurement ~5 gallons removed
	12/1/2020	10:40	ND	7.17	16.65	17.30	NA	0.65	Pre-pumping measurement
	12/2/2020	8:05	ND	7.14	ND	17.32	NA	NA	Post-pumping measurement ~5 gallons removed
	12/16/2020	10:50	ND	7.35	16.75	17.32	NA	0.57	Pre-pumping measurement
	12/18/2020	9:30	ND	7.40	ND	17.35	NA	NA	Post-pumping measurement ~3 gallons removed
	12/29/2020	10:20	ND	7.31	16.30	17.35	NA	1.05	
	12/30/2020	7:15	ND	7.28	16.29	17.35	NA	1.06	Pre-pumping measurement
	12/30/2020	7:45	ND	7.25	ND	17.36	NA	NA	Post-pumping measurement ~5 gallons removed
	1/13/2021	9:50	ND	7.38	16.34	17.35	NA	1.01	
	1/14/2021	7:15	ND	7.42	16.35	17.35	NA	1.00	Pre-pumping measurement
	1/14/2021	7:35	ND	7.91	ND	17.35	NA	NA	Post-pumping measurement ~5 gallons removed
	1/27/2021	10:40	ND	7.55	16.25	17.45	NA	1.20	
	1/28/2021	7:30	ND	7.60	16.25	17.45	NA	1.20	Pre-pumping measurement
	1/28/2021	7:45	ND	7.78	ND	17.45	NA	NA	Post-pumping measurement ~4 gallons removed
	2/8/2021	10:50	ND	7.48	16.80	17.40	NA	0.60	
	2/11/2021	9:30	ND	7.50	16.80	17.38	NA	0.58	Pre-pumping measurement
	2/11/2021	9:40	ND	7.60	ND	17.40	NA	NA	Post-pumping measurement ~2 gallons removed
	2/24/2021	10:10	ND	7.46	16.68	17.39	NA	0.71	
	2/25/2021	7:50	ND	7.46	16.65	17.39	NA	0.74	Pre-pumping measurement
	2/25/2021	7:55	ND	7.47	ND	17.40	NA	NA	Post-pumping measurement ~2 gallons removed
	3/10/2021	11:20	ND	7.45	17.04	17.40	NA	0.36	
	3/11/2021	7:30	ND	7.49	16.66	17.40	NA	0.74	Pre-pumping measurement
	3/11/2021	7:36	ND	7.55	ND	17.39	NA	NA	Post-pumping measurement ~2 gallons removed
	3/24/2021	9:36	ND	7.48	17.21	17.41	NA	0.20	
	3/25/2021	7:55	ND	7.39	17.18	17.38	NA	0.20	Pre-pumping measurement
3/25/2021	8:10	ND	7.08	ND	17.39	NA	NA	Post-pumping measurement ~2 gallons removed	
4/7/2021	8:20	ND	7.22	17.30	17.40	NA	0.10		
4/8/2021	6:45	ND	7.22	17.30	17.40	NA	0.10	Pre-pumping measurement	
4/8/2021	7:29	ND	7.31	ND	17.43	NA	NA	Post-pumping measurement ~1.5 gallons removed	
4/21/2021	9:05	ND	7.14	17.29	17.40	NA	0.11		
4/22/2021	8:10	ND	7.17	17.11	17.40	NA	0.29	Pre-pumping measurement	
4/22/2021	8:15	ND	7.36	ND	17.39	NA	NA	Post-pumping measurement ~3 gallons removed	
5/5/2021	10:25	ND	7.00	17.11	17.35	NA	0.24		

Table 1
Polychrome East
Yonkers, NY
Well Gauging Measurements

Well ID	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments
NW-4 (cont.)	5/6/2021	7:45	ND	7.04	17.20	17.35	NA	0.15	Pre-pumping measurement
	5/6/2021	8:30	ND	7.08	ND	17.36	NA	NA	Post-pumping measurement ~3 gallons removed
	5/17/2021	10:00	ND	7.08	16.82	17.29	NA	0.47	
	5/20/2021	7:20	ND	7.11	16.82	17.29	NA	0.47	Pre-pumping measurement
	5/20/2021	7:40	ND	7.15	ND	17.33	NA	NA	Post-pumping measurement ~3 gallons removed
	6/2/2021	9:55	ND	6.85	16.80	17.29	NA	0.49	
	6/3/2021	7:15	ND	6.83	16.81	17.29	NA	0.48	Pre-pumping measurement
	6/3/2021	7:25	ND	6.88	ND	17.30	NA	NA	Post-pumping measurement ~2.5 gallons removed
	6/16/2021	10:05	ND	6.91	17.04	17.29	NA	0.25	
	6/30/2021	10:15	ND	6.99	17.35	17.42	NA	0.07	
	7/14/2021	10:15	ND	6.63	16.80	17.42	NA	0.62	
	7/15/2021	7:45	ND	6.02	16.80	17.42	NA	0.62	Pre-pumping measurement
	7/15/2021	8:00	ND	6.71	ND	17.42	NA	NA	Post-pumping measurement ~5.1 gallons removed
	7/27/2021	10:00	ND	5.80	17.20	17.41	NA	0.21	
	8/11/2021	12:00	ND	6.96	17.00	17.43	NA	0.43	
	8/23/2021	11:20	ND	5.96	16.90	17.48	NA	0.58	
	8/24/2021	7:20	ND	6.49	16.90	17.48	NA	0.58	Pre-pumping measurement
	8/24/2021	7:35	ND	6.51	ND	17.48	NA	NA	Post-pumping measurement ~2.2 gallons removed
	9/8/2021	10:15	ND	6.40	16.90	17.43	NA	0.53	
	9/9/2021	7:20	ND	6.41	16.90	17.43	NA	0.53	Pre-pumping measurement
	9/9/2021	7:35	ND	6.47	ND	17.43	NA	NA	Post-pumping measurement ~9.4 gallons removed
	9/21/2021	11:55	ND	7.02	17.15	17.45	NA	0.30	
	10/7/2021	11:08	ND	7.09	17.00	17.41	NA	0.41	
	10/8/2021	6:45	ND	6.93	16.98	17.41	NA	0.43	
	10/20/2021	11:10	ND	7.03	16.40	17.33	NA	0.93	
	10/21/2021	7:30	ND	7.05	16.40	17.33	NA	0.93	Pre-pumping measurement
	10/21/2021	7:45	ND	7.08	ND	17.33	NA	NA	Post-pumping measurement ~6 gallons removed
	11/4/2021	13:15	ND	6.90	17.25	17.45	NA	0.20	
	11/17/2021	9:30	ND	7.11	16.90	17.45	NA	0.55	
	11/19/2021	8:05	ND	7.17	16.90	17.45	NA	0.55	Pre-pumping measurement
11/19/2021	9:15	ND	7.18	ND	17.45	NA	NA	Post-pumping measurement ~13 gallons removed	
12/1/2021	11:00	ND	7.27	17.19	17.40	NA	0.21		
12/14/2021	12:10	ND	7.47	16.90	17.47	NA	0.57		
12/15/2021	8:40	ND	7.53	16.90	17.47	NA	0.57	Pre-pumping measurement	
12/15/2021	8:50	ND	7.55	ND	17.47	NA	NA	Post-pumping measurement ~8 gallons removed	
12/28/2021	10:00	ND	7.44	17.15	17.47	NA	0.32		
NW-5	10/7/2020	10:20	ND	7.95	ND	10.55	NA	NA	
	10/21/2020	8:40	ND	7.67	ND	10.50	NA	NA	
	11/4/2020	6:50	ND	7.27	ND	10.62	NA	NA	
	11/18/2020	6:50	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/1/2020	9:45	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/16/2020	8:30	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	12/29/2020	8:50	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	1/13/2021	10:00	NA	NA	NA	NA	NA	NA	Inaccessible due to siding staged over well.
	1/27/2021	8:35	ND	7.48	ND	10.70	NA	NA	
	2/8/2021	9:50	ND	7.72	ND	10.57	NA	NA	
	2/24/2021	8:30	ND	7.50	ND	10.56	NA	NA	
	3/10/2021	9:40	ND	7.19	ND	10.55	NA	NA	
	3/24/2021	8:45	ND	7.45	ND	10.46	NA	NA	
	4/7/2021	8:25	ND	4.35	ND	10.49	NA	NA	
	4/21/2021	9:10	ND	4.06	ND	10.51	NA	NA	
	5/5/2021	9:19	ND	7.20	ND	10.42	NA	NA	
	5/17/2021	9:05	ND	7.20	ND	10.42	NA	NA	
	6/2/2021	8:53	ND	6.73	ND	10.44	NA	NA	
	6/16/2021	9:31	ND	6.45	ND	10.40	NA	NA	
	6/30/2021	8:45	ND	7.10	ND	10.55	NA	NA	
	7/15/2021	8:30	ND	5.84	ND	10.56	NA	NA	
	7/27/2021	8:07	ND	6.33	ND	10.38	NA	NA	
	8/11/2021	10:45	ND	6.97	ND	10.59	NA	NA	
	8/23/2021	9:15	ND	5.35	ND	10.44	NA	NA	
	9/8/2021	8:15	ND	5.50	ND	10.46	NA	NA	
	9/21/2021	9:45	ND	6.90	ND	10.57	NA	NA	
	10/7/2021	8:15	ND	7.33	ND	10.41	NA	NA	
10/20/2021	7:25	ND	7.42	ND	10.52	NA	NA		
11/4/2021	10:05	ND	6.26	ND	10.55	NA	NA		
11/17/2021	7:30	ND	6.89	ND	10.62	NA	NA		
12/1/2021	8:50	ND	7.54	ND	10.49	NA	NA		
12/14/2021	7:45	ND	7.89	ND	10.58	NA	NA		
12/28/2021	10:15	ND	8.03	ND	10.51	NA	NA		

Notes: Pre/post pumping event readings are bolded.
LNAPL - Light Non-Aqueous Phase Liquid
DNAPL - Dense Non-Aqueous Phase Liquid
NA - Not Applicable

Table 2
Polychrome East
Yonkers, NY
DNAPL Recovery Totals

Recovery Event	DNAPL Recovered Volume (gal)						Disposal Info		
	NW-1	NW-2	NW-3	NW-4	NW-5	Event Total	Date Generated	Off-Site Disposal Date	Disposal Location
Dec-19	NA	NA	1.5	7	NA	8.5	12/31/2019	2/21/2020	Veolia ES
2020 Total	NA	NA	149.5	121.5	NA	271	1/9/2020 – 12/30/2020	2/21/2020 – 2/11/2021	Veolia ES
Jan-21	NA	NA	9	9	NA	18	1/14, 1/28	2/11/2021	Veolia ES
Feb-21	NA	NA	6	4	NA	10	2/11, 2/25	5/3/2021	Veolia ES
Mar-21	NA	NA	7	4	NA	11	3/11, 3/25	5/3/2021	Veolia ES
Apr-21	NA	NA	15.5	4.5	NA	20	3/11, 3/25	5/3/2021	Veolia ES
May-21	NA	NA	14	6	NA	20	5/6, 5/20	8/11/2021	Veolia ES
Jun-21	NA	NA	7	2.5	NA	9.5	6/2, 6/17	8/11/2021	Veolia ES
Jul-21	NA	NA	13.6	5.1	NA	18.7	7/1, 7/15, 7/29	8/11/2021	Veolia ES
Aug-21	NA	NA	6.4	2.2	NA	8.6	8/12/2021, 8/24/21	12/17/2021	Veolia ES
Sep-21	NA	NA	7.3	9.4	NA	16.7	9/9/2021, 9/23/21	12/17/2021	Veolia ES
Oct-21	NA	NA	5.5	6	NA	11.5	10/8/21, 10/21/21	12/17/2021	Veolia ES
Nov-21	NA	NA	9	13	NA	22	11/5/21, 11/19/21	12/17/2021	Veolia ES
Dec-21	NA	NA	7.5	8	NA	15.5	12/2/21, 12/15/21	* 12/17/2021 and Pending	Veolia ES
TOTAL TO DATE:						461	gallons		

Notes: * On December 17, 2021, Veolia ES disposed of 55 gallons of DNAPL, including the 8.6 gallons of DNAPL that were generated on August 12 and 24, 2021, the 16.7 gallons of DNAPL that were generated on September 9, and 23, 2021, the 11.5 gallons of DNAPL that were generated on October 8 and 21, 2021, and the 18.2 gallons of DNAPL that were generated on November 5 and 19, 2021. The remaining 3.8 gallons of DNAPL that were generated on November 19, 2021 and the 15.5 gallons of DNAPL that were generated on December 2 and 15, 2021 are currently pending off-site disposal.

DNAPL - Dense Non-Aqueous Phase Liquid
NA - Not Applicable