



***Environmental, Planning, and Engineering Consultants***

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January 26, 2021

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

Re: Progress Report – December 2020  
Polychrome West Site  
City of Yonkers, Westchester County  
NYSDEC BCP Site No. C360099

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 West site [Brownfield Cleanup Program (BCP) Site No. C360099] located at 137-145 Alexander Street, Yonkers, New York (the Site) during the month of December 2020.

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

- No intrusive soil work occurred below the final cover system at the Site during the reporting period for the month of December 2020.
- On December 1, 2, 16, 18, 29, and 30, 2020, handheld equipment was used to monitor volatile organic compounds (VOCs), oxygen, and hydrogen sulfide (H<sub>2</sub>S) 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 H<sub>2</sub>S exceedances were recorded during the DNAPL removal activities.

**Site Activities:**

- During the month of December 2020, no on-Site excavation activities below the final cover system occurred.
- On December 1, 16, and 29, 2020, DNAPL gauging was conducted at NW-5, NW-6, NW-8, NW-10, and NW-11. On December 1, 16, and 29, 2020, AKRF completed the monthly gauging of the following groundwater monitoring and DNAPL recovery wells: MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, NW-1, NW-3, NW-4, NW-5, NW-6, NW-7, NW-8, NW-9, NW-10, NW-10S, NW-11, and NW-12. DNAPL recovery wells are equipped with 3-foot sumps. DNAPL was detected during the December 2020 monitoring events in NW-5, NW-6, NW-8, NW-10, and NW-11, as summarized below and detailed in the attached Table 1.

<b>Recovery Well ID</b>	<b>DNAPL Thickness 12/1/20 (feet)</b>	<b>DNAPL Thickness 12/16/2020 (feet)</b>	<b>DNAPL Thickness 12/29/2020 (feet)</b>
NW-5	8.25	8.40	8.61
NW-6	2.71	3.92	4.75
NW-8	1.28	1.15	0.93
NW-10	4.83	5.85	2.83
NW-11	Trace	Trace	ND

ND – Not Detected

Note: Measured DNAPL thicknesses are estimated.

- On December 1, 16, and 29, 2020, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells at the Site. On December 1, 2020, ~1 gallons of DNAPL were removed from NW-8, and ~3.5 gallons of DNAPL were removed from NW-10. On December 16, 2020, ~1 gallons of DNAPL were removed from NW-8, and ~4 gallons of DNAPL were removed from NW-10. On December 29, 2020, ~0.75 gallons of DNAPL were removed from NW-8, and ~3.5 gallons of DNAPL were removed from NW-10. The recovered DNAPL was containerized in a Department of Transportation (DOT)-approved 55-gallon drum, labeled as hazardous waste, and staged on the PW Site in Grid Cell B1 (see Figure 2).
- On December 2, 18, and 30, 2020, AKRF performed oversight during additional DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). DNAPL was removed from recovery wells NW-5 (~26 gallons total) and NW-6 (~16 gallons total) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the respective recovery well. The recovered DNAPL was containerized in a DOT-approved 55-gallon drum, labeled as hazardous waste, and staged on-Site in Grid Cell B1 (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.
- Between December 8 and 10, 2020, 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, Target Analyte List (TAL) for metals (total and dissolved). The results of this sampling event along with sampling methodology will be submitted in the forthcoming Annual Groundwater Monitoring letter report in January 2021.
- On December 10, 2020, Brookside Environmental removed one drum of used personal protective equipment (PPE) and oily debris and two drums of decontamination wash water generated during previous DNAPL recovery events. The drums were disposed of at Clean Waters of New York in Staten Island, New York. The non-hazardous waste manifest is included in Attachment A and will be included in the Periodic Review Report (PRR) for 2020.
- On December 18, 2020, AKRF performed the Site-Wide and Site Cover inspections in accordance with the SMP. The Site-Wide Cover System was observed to be in good condition throughout all portions of the Site. Minor evidence of surficial cracks, none of which breached the Site-Wide Cover System, were observed and no corrective measures were necessary. Details of the Site-Wide Cover System inspection will be discussed in the PRR for 2020.
- On December 21, 2020, Veolia Environmental Services (VES) picked up one drum of DNAPL generated during the November 2020 and December 2, 2020 DNAPL pumping events for off-site disposal at their facility in Flanders, New Jersey. The hazardous waste disposal manifest is included in Attachment A and will be included in the PRR for 2020.

- A total of 55.75 gallons of DNAPL were recovered during the reporting period, and 506 gallons of DNAPL have been recovered in total (year to date). DNAPL recovery totals are summarized in Table 2.
- AKRF anticipates to complete DNAPL gauging and removal in January 2021 using the same methods as described above while long-term trends and alternate recovery methods are evaluated.

The following work is planned for January 2021:

- Grading activities with NYSDEC-approved topsoil, ¾-inch stone, and trap rock screenings;
- General site work above the Site-Wide Cover System;
- NAPL recovery well monitoring and NAPL recovery at a frequency of once every two weeks;
- Submission of the annual groundwater monitoring report; and
- Disposal, as needed, of recovered DNAPL (i.e., coal tar) and used PPE/field supplies.

If you have any questions or require additional information, please contact me at (914) 922-2387.

Sincerely,  
AKRF, Inc.



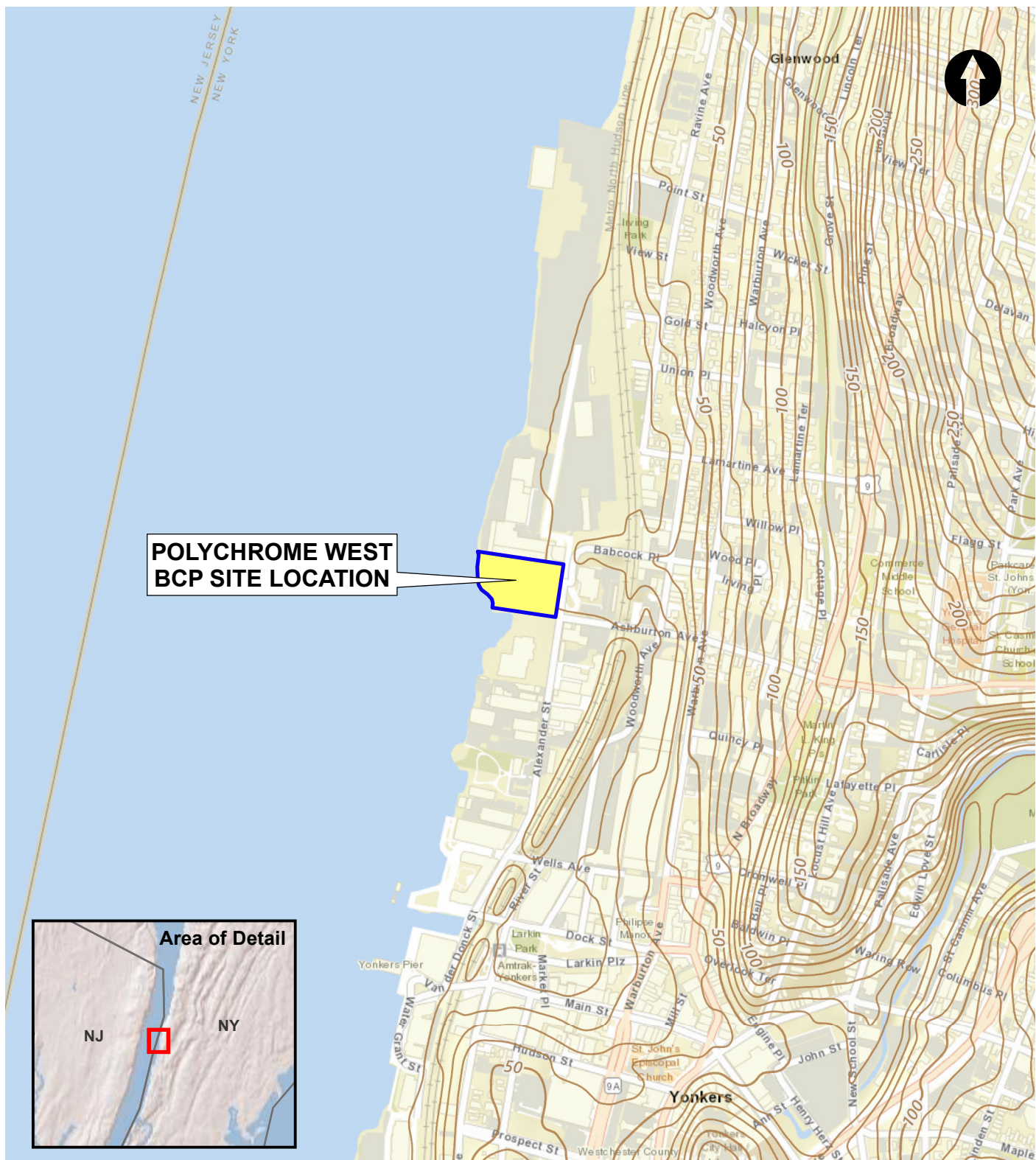
Patrick McHugh, P.E.  
Environmental Engineer

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 West Well Gauging Table  
              Table 2 – Polychrome West DNAPL Recovery Totals  
              Attachment A – Veolia & Brookside Manifests

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

## **ATTACHMENTS**

© 2019 AKRF Q:\Projects\180017 - AVALONBAY YONKERS - BLD 2 - PCW\Technical\GIS and Graphics\Hazmat\FER180017 Fig 1 site loc map.mxd/25/2019 3:39:54 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.



34 S. Broadway #401, White Plains, NY 10601

**Polychrome West**  
**NYSDEC Site (BCP #C360099)**  
Yonkers, New York


## SITE LOCATION MAP

DATE	<b>12/19/2019</b>
PROJECT NO.	<b>180017</b>
FIGURE	<b>1</b>






Aerial Source:  
2014 New York Statewide Digital Orthoimagery.



**LEGEND**

PROJECT SITE BOUNDARY

1



ALPHANUMERIC GRID



Polychrome West Site  
BCP Site C360099  
Yonkers, New York



440 Park Avenue South, New York, NY 10016

SITE PLAN WITH REFERENCE GRID

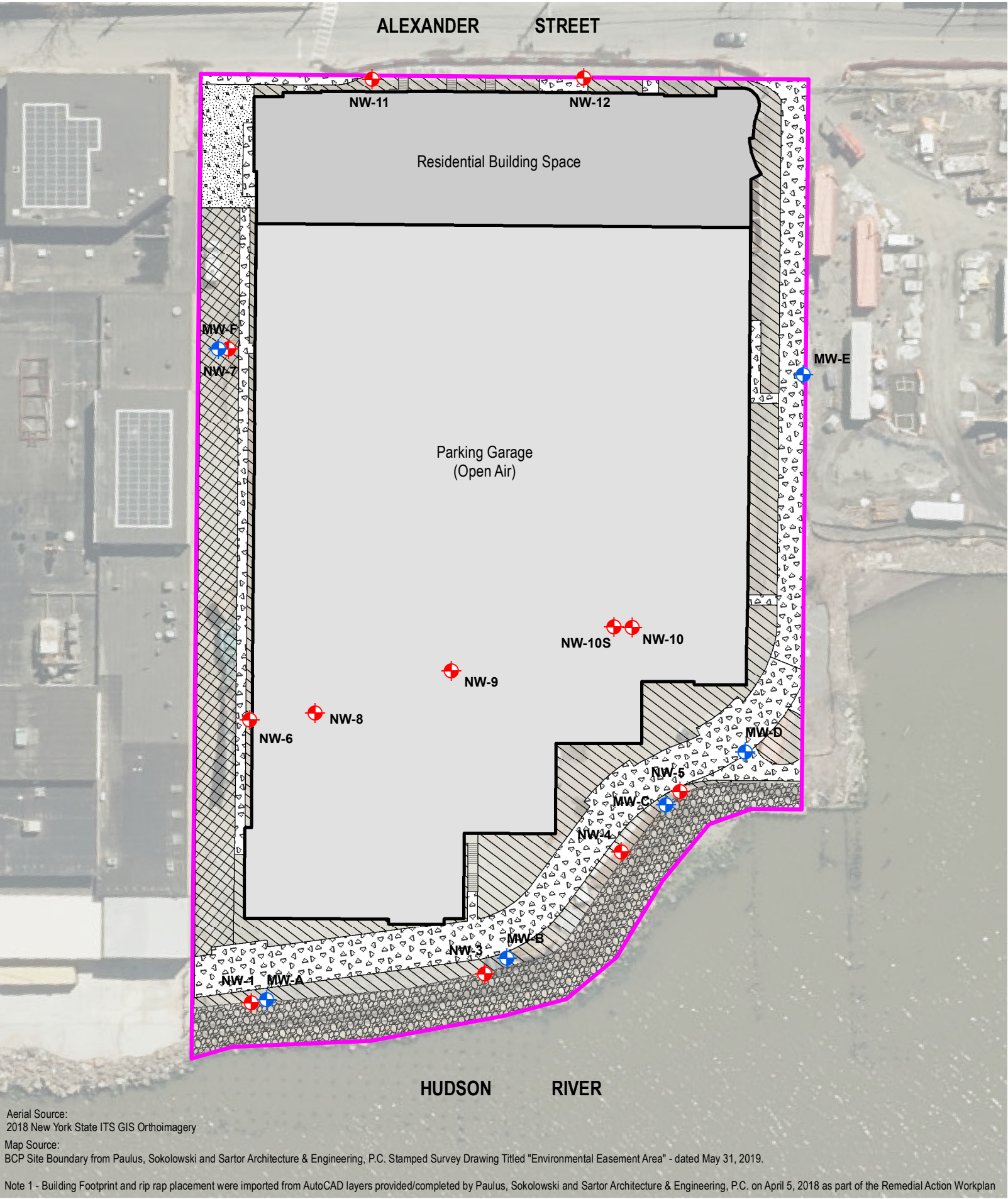
DATE

PROJECT NO.  
**40566**

FIGURE  
**2**



©2019 AKRF C:\Projects\180017 - AVALONBAY YONKERS - BLD 2 - PCW\Technical\GIS and Graphics\Hazmat\FER180017 Fig 7 NAPL Recovery and GW Wells.mxd 12/19/2019 2:26:59 PM mveilleux



**LEGEND**

- BCP SITE
- RESIDENTIAL BUILDING
- PARKING GARAGE (OPEN)
- ESPLANADE
- GRASS PAVER
- ASPHALT
- LANDSCAPED
- RIP RAP
- NAPL RECOVERY WELL
- GROUNDWATER MONITORING WELL LOCATION (SHALLOW NAPL RECOVERY)



Polychrome West  
NYSDEC Site (BCP #C360099)  
Yonkers, New York

NAPL RECOVERY & GROUNDWATER  
MONITORING WELL LOCATION PLAN

AKRF  
440 Park Avenue South, New York, NY 10016

DATE  
12/19/2019  
PROJECT NO.  
180017  
FIGURE  
3

**Table 1**  
**Polychrome West**  
**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	1/9/2020	12:09	ND	8.35	ND	13.10	NA	NA	
	2/19/2020	10:00	ND	7.38	ND	13.11	NA	NA	
	3/25/2020	8:50	ND	7.39	ND	14.22	NA	NA	
	4/21/2020	8:22	ND	6.52	ND	13.18	NA	NA	
	5/19/2020	9:10	ND	6.70	ND	13.09	NA	NA	
	6/24/2020	7:53	ND	7.79	ND	13.11	NA	NA	
	7/15/2020	8:25	ND	6.89	ND	13.08	NA	NA	
	7/26/2020	9:15	ND	8.21	ND	13.20	NA	NA	
	8/12/2020	8:58	ND	7.76	ND	13.18	NA	NA	
	8/25/2020	10:55	ND	8.16	ND	13.20	NA	NA	
	9/10/2020	8:25	ND	7.62	ND	13.13	NA	NA	
	9/23/2020	8:05	ND	7.12	ND	13.16	NA	NA	
	10/7/2020	9:15	ND	5.86	ND	11.16	NA	NA	
	10/21/2020	8:20	ND	5.96	ND	11.20	NA	NA	
	11/4/2020	5:55	ND	6.42	ND	11.21	NA	NA	
MW-B	11/18/2020	9:40	ND	5.82	ND	11.28	NA	NA	
	12/1/2020	8:25	ND	3.20	ND	11.17	NA	NA	
	12/16/2020	8:10	ND	5.75	ND	11.19	NA	NA	
	12/29/2020	8:15	ND	4.96	ND	11.18	NA	NA	
	1/9/2020	13:34	ND	11.39	ND	14.73	NA	NA	
	2/19/2020	10:00	ND	10.37	ND	14.71	NA	NA	
	3/25/2020	8:40	ND	10.52	ND	14.73	NA	NA	
	4/21/2020	8:30	ND	9.82	ND	14.71	NA	NA	
	5/19/2020	9:21	ND	9.88	ND	14.70	NA	NA	
	6/24/2020	7:51	ND	11.04	ND	14.68	NA	NA	
	7/15/2020	8:20	ND	9.90	ND	14.74	NA	NA	
	7/26/2020	9:22	ND	11.31	ND	14.67	NA	NA	
	8/12/2020	9:13	ND	10.94	ND	14.79	NA	NA	
	8/25/2020	11:00	ND	11.35	ND	14.83	NA	NA	
	9/10/2020	8:20	ND	10.73	ND	14.75	NA	NA	
	9/23/2020	8:00	ND	10.13	ND	14.78	NA	NA	
MW-C	10/7/2020	9:20	ND	9.10	ND	12.68	NA	NA	
	10/21/2020	8:15	ND	9.22	ND	12.70	NA	NA	
	11/4/2020	6:00	ND	9.54	ND	12.89	NA	NA	
	11/18/2020	9:45	ND	9.08	ND	13.03	NA	NA	
	12/1/2020	8:30	ND	7.25	ND	12.78	NA	NA	
	12/16/2020	8:05	ND	9.18	ND	12.75	NA	NA	
	12/29/2020	8:10	ND	8.25	ND	12.78	NA	NA	
	1/9/2020	12:08	ND	12.38	ND	18.52	NA	NA	
	2/19/2020	10:00	ND	12.02	ND	17.96	NA	NA	
	3/25/2020	8:30	ND	11.74	ND	18.02	NA	NA	
	4/21/2020	8:37	ND	10.83	ND	17.75	NA	NA	
	5/19/2020	9:30	ND	11.36	ND	17.78	NA	NA	
	6/24/2020	7:49	ND	12.39	ND	17.74	NA	NA	
	7/15/2020	8:15	ND	11.37	ND	17.91	NA	NA	
	7/26/2020	9:30	ND	8.57	ND	12.38	NA	NA	
	8/12/2020	9:18	ND	8.40	ND	12.54	NA	NA	
MW-D	8/25/2020	11:05	ND	8.50	ND	12.58	NA	NA	
	9/10/2020	8:15	ND	7.99	ND	12.41	NA	NA	
	9/23/2020	7:55	ND	7.27	ND	12.42	NA	NA	
	10/7/2020	9:25	ND	8.39	ND	12.83	NA	NA	
	10/21/2020	8:12	ND	8.43	ND	12.47	NA	NA	
	11/4/2020	6:05	ND	8.50	ND	12.59	NA	NA	
	11/18/2020	9:50	ND	7.87	ND	12.35	NA	NA	
	12/1/2020	8:35	ND	5.89	ND	12.37	NA	NA	
	12/16/2020	8:00	ND	7.80	ND	12.31	NA	NA	
	12/29/2020	8:05	ND	7.19	ND	12.42	NA	NA	
	1/9/2020	16:06	ND	11.16	ND	17.83	NA	NA	
	2/19/2020	10:00	ND	10.41	ND	17.89	NA	NA	
	3/25/2020	8:25	ND	10.65	ND	18.11	NA	NA	
	4/21/2020	8:41	ND	10.37	ND	17.90	NA	NA	
	5/19/2020	9:39	ND	10.35	ND	17.82	NA	NA	
	6/24/2020	7:46	ND	10.23	ND	17.80	NA	NA	
MW-D	7/15/2020	8:10	ND	8.40	ND	15.96	NA	NA	Well cut down to pavement level
	7/26/2020	9:37	ND	8.59	ND	15.92	NA	NA	
	8/12/2020	9:20	ND	8.71	ND	16.05	NA	NA	
	8/25/2020	11:10	ND	8.63	ND	16.44	NA	NA	
	9/10/2020	8:05	ND	8.53	ND	15.93	NA	NA	
	9/23/2020	7:50	ND	7.90	ND	15.95	NA	NA	
	10/7/2020	9:35	ND	8.60	ND	15.95	NA	NA	



**Table 1**  
**Polychrome West**  
**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
<b>MW-D (Cont.)</b>	10/21/2020	8:10	ND	8.45	ND	15.83	NA	NA	
	11/4/2020	6:10	ND	9.27	ND	16.02	NA	NA	
	11/18/2020	9:55	ND	8.93	ND	16.18	NA	NA	
	12/1/2020	8:40	ND	7.86	ND	15.94	NA	NA	
	12/16/2020	7:55	ND	8.91	ND	15.86	NA	NA	
	12/29/2020	8:00	ND	8.75	ND	15.91	NA	NA	
<b>MW-E</b>	1/9/2020	16:03	ND	12.22	ND	15.39	NA	NA	
	2/19/2020	10:00	ND	7.84	ND	12.59	NA	NA	Well cut down to pavement level
	3/25/2020	8:20	ND	8.63	ND	12.58	NA	NA	
	4/21/2020	8:15	ND	7.77	ND	12.60	NA	NA	
	5/19/2020	9:50	ND	7.77	ND	12.54	NA	NA	
	6/24/2020	7:41	ND	9.21	ND	12.74	NA	NA	
	7/15/2020	8:00	ND	7.77	ND	12.5	NA	NA	
	7/26/2020	9:45	ND	9.13	ND	12.52	NA	NA	
	8/12/2020	9:24	ND	9.02	ND	12.61	NA	NA	
	8/25/2020	11:15	ND	8.75	ND	12.51	NA	NA	
	9/10/2020	8:00	ND	8.40	ND	12.58	NA	NA	
	9/23/2020	7:45	ND	8.22	ND	12.79	NA	NA	
	10/7/2020	9:40	ND	8.72	ND	12.70	NA	NA	
	10/21/2020	8:05	ND	8.97	ND	12.75	NA	NA	
	11/4/2020	6:15	ND	9.15	ND	12.63	NA	NA	
	11/18/2020	10:00	ND	8.54	ND	12.59	NA	NA	
	12/1/2020	8:45	ND	7.39	ND	12.67	NA	NA	
	12/16/2020	7:50	ND	8.81	ND	12.51	NA	NA	
	12/29/2020	7:55	ND	8.27	ND	12.53	NA	NA	
<b>MW-F</b>	1/9/2020	15:55	ND	12.09	ND	20.04	NA	NA	
	2/19/2020	10:00	ND	12.07	ND	20.09	NA	NA	
	3/25/2020	8:55	ND	9.53	ND	17.79	NA	NA	
	4/21/2020	8:10	ND	9.38	ND	17.79	NA	NA	
	5/19/2020	10:03	ND	9.61	ND	17.65	NA	NA	
	6/24/2020	7:57	ND	9.38	ND	17.64	NA	NA	
	7/15/2020	8:30	ND	9.04	ND	17.66	NA	NA	
	7/26/2020	9:58	ND	9.32	ND	17.68	NA	NA	
	8/12/2020	9:04	ND	9.51	ND	17.7	NA	NA	
	8/25/2020	11:20	ND	9.37	ND	18.26	NA	NA	
	9/10/2020	9:10	ND	9.55	ND	17.67	NA	NA	
	9/23/2020	8:10	ND	9.49	ND	17.69	NA	NA	
	10/7/2020	8:45	ND	9.39	ND	17.61	NA	NA	
	10/21/2020	9:00	ND	9.16	ND	17.65	NA	NA	
	11/4/2020	6:25	ND	9.25	ND	17.73	NA	NA	
	11/18/2020	9:35	ND	9.41	ND	18.19	NA	NA	
	12/1/2020	8:20	ND	9.14	ND	17.69	NA	NA	
	12/16/2020	8:15	ND	9.53	ND	17.57	NA	NA	
	12/29/2020	8:20	ND	9.29	ND	17.68	NA	NA	
<b>NW-1</b>	1/9/2020	12:47	ND	8.4	ND	20.55	NA	NA	
	2/19/2020	11:30	ND	7.75	ND	20.39	NA	NA	
	3/25/2020	9:45	ND	7.02	ND	20.48	NA	NA	
	4/21/2020	9:07	ND	6.23	ND	20.50	NA	NA	
	5/19/2020	10:58	ND	7.02	ND	20.41	NA	NA	
	6/24/2020	8:43	ND	7.61	ND	20.39	NA	NA	
	7/15/2020	9:20	ND	6.98	ND	20.42	NA	NA	
	7/26/2020	10:40	ND	7.99	ND	20.38	NA	NA	
	8/12/2020	10:06	ND	7.76	ND	20.39	NA	NA	
	8/25/2020	12:05	ND	7.76	ND	20.36	NA	NA	
	9/10/2020	9:45	ND	7.72	ND	20.42	NA	NA	
	9/23/2020	8:50	ND	7.14	ND	20.48	NA	NA	
	10/7/2020	9:05	ND	7.68	ND	20.31	NA	NA	
	10/21/2020	9:05	ND	7.77	ND	20.42	NA	NA	
	11/4/2020	6:55	ND	8.12	ND	20.42	NA	NA	
	11/18/2020	10:20	ND	7.74	ND	21.25	NA	NA	
	12/1/2020	9:30	ND	5.02	ND	20.28	NA	NA	
	12/16/2020	9:15	ND	7.40	ND	20.34	NA	NA	
	12/29/2020	9:15	ND	6.81	ND	20.34	NA	NA	
<b>NW-3</b>	1/9/2020	12:52	ND	10.84	ND	35.31	NA	NA	
	2/19/2020	11:30	ND	10.21	ND	35.95	NA	NA	
	3/25/2020	9:50	ND	9.04	ND	35.33	NA	NA	
	4/21/2020	9:10	ND	8.32	ND	35.48	NA	NA	
	5/19/2020	11:10	ND	9.30	ND	35.39	NA	NA	
	6/24/2020	8:40	ND	10.03	ND	35.16	NA	NA	
	7/15/2020	9:25	ND	8.97	ND	35.08	NA	NA	

**Table 1**  
**Polychrome West**  
**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.)	7/26/2020	10:53	ND	10.58	ND	35.13	NA	NA	
	8/12/2020	10:10	ND	10.19	ND	35.12	NA	NA	
	8/25/2020	12:00	ND	10.15	ND	35.87	NA	NA	
	9/10/2020	9:50	ND	10.08	ND	35.08	NA	NA	
	9/23/2020	8:55	ND	9.09	ND	35.18	NA	NA	
	10/7/2020	11:05	ND	7.46	ND	33.05	NA	NA	
	10/21/2020	9:15	ND	8.06	ND	33.22	NA	NA	
	11/4/2020	7:05	ND	8.42	ND	33.15	NA	NA	
	11/18/2020	10:30	ND	7.94	ND	34.24	NA	NA	
	12/1/2020	9:35	ND	6.05	ND	33.06	NA	NA	
	12/16/2020	9:20	ND	7.66	ND	32.98	NA	NA	
NW-4	12/29/2020	9:20	ND	6.96	ND	32.32	NA	NA	
	1/9/2020	13:44	ND	11.82	ND	45.89	NA	NA	
	2/19/2020	11:30	ND	11.08	ND	46.26	NA	NA	
	3/25/2020	9:55	ND	11.10	ND	46.48	NA	NA	
	4/21/2020	10:00	ND	10.64	ND	45.71	NA	NA	
	5/19/2020	11:22	ND	10.98	ND	45.48	NA	NA	
	6/24/2020	9:13	ND	10.97	ND	45.43	NA	NA	
	7/15/2020	9:35	ND	10.76	ND	45.37	NA	NA	
	7/26/2020	11:05	ND	9.00	ND	43.19	NA	NA	Well cut to grade, sidewalk flushmount in progress.
	8/12/2020	11:07	ND	8.98	ND	43.22	NA	NA	
	8/25/2020	12:45	ND	8.91	ND	44.52	NA	NA	
	9/10/2020	10:10	ND	8.89	ND	43.12	NA	NA	
	9/23/2020	9:25	ND	8.26	ND	43.28	NA	NA	
	10/7/2020	11:20	ND	8.73	Trace	43.24	NA	NA	
	10/21/2020	9:45	ND	8.85	ND	43.21	NA	NA	
	11/4/2020	7:35	ND	9.44	ND	43.23	NA	NA	
	11/18/2020	10:40	ND	9.22	ND	44.98	NA	NA	
NW-5	12/1/2020	10:20	ND	7.95	ND	43.26	NA	NA	
	12/16/2020	9:40	ND	9.16	ND	43.19	NA	NA	
	12/29/2020	10:20	ND	8.84	ND	42.23	NA	NA	
	1/9/2020	10:00	ND	12.04	32.86	39.97	NA	7.11	Pre-pumping measurement. ~ 7 gallons removed
	1/9/2020	13:36	ND	12.84	ND	38.45	NA	NA	Post-pumping measurement.
	1/10/2020	10:30	ND	11.29	ND	38.39	NA	NA	
	1/10/2020	12:53	ND	12.53	ND	40.38	NA	NA	
	2/19/2020	13:00	ND	12.33	33.39	40.38	NA	6.99	Pre-pumping measurement
	2/21/2020	13:05	ND	12.33	ND	40.38	NA	NA	Post-pumping measurement ~7.5 gallons removed
	3/25/2020	12:00	ND	11.75	33.05	40.38	NA	7.33	Pre-pumping measurement
	3/26/2020	9:00	ND	11.75	37.6	37.80	NA	NA	Post-pumping measurement ~7.5 gallons removed
	4/21/2020	11:20	ND	10.52	33.15	40.38	NA	7.23	Pre-pumping measurement
	4/22/2020	14:30	ND	NA	36.50	39.94	NA	3.44	Post-pumping measurement ~8 gallons removed
	4/30/2020	10:30	ND	NA	33.00	39.94	NA	6.94	
	5/7/2020	9:50	ND	10.40	32.80	39.94	NA	7.14	LNAPL film
	5/14/2020	14:00	ND	11.80	32.70	39.94	NA	7.24	
	5/19/2020	13:15	ND	10.71	32.05	39.82	NA	7.77	Pre-pumping measurement
	5/21/2020	10:45	ND	10.16	35.96	39.82	NA	3.86	Post-pumping measurement ~30 gallons removed (additional while troubleshooting low flow rate)
	6/12/2020	12:30	ND	11.17	33.00	39.82	NA	6.82	
	6/24/2020	10:39	ND	11.20	32.80	39.82	NA	7.02	Pre-pumping measurement
	6/25/2020	10:00	ND	11.20	37.82	39.82	NA	2.00	Post-pumping measurement ~8 gallons removed
	6/29/2020	13:25	ND	11.86	33.96	39.96	NA	6.00	
	7/8/2020	11:00	ND	10.98	33.10	39.96	NA	6.86	
	7/15/2020	11:30	ND	11.59	32.80	39.96	NA	7.16	Pre-pumping measurement
	7/16/2020	12:20	ND	11.59	37.96	39.96	NA	2.00	Post-pumping measurement ~8 gallons removed
	7/22/2020	12:50	ND	7.80	31.82	36.00*	NA	4.18*	Well in process of being converted to flush mount, change in height. Unable to measure total depth due to DNAPL viscosity. * = ESTIMATED
	7/26/2020	12:55	ND	8.60	29.63	36.00*	NA	6.37*	Pre-pumping measurement
	7/27/2020	10:30	ND	8.59	32.61	36.00*	NA	3.39*	Post-pumping measurement ~3 gallons removed
	8/6/2020	12:45	ND	7.63	32.61	36.00*	NA	3.39*	Unable to measure total depth due to DNAPL viscosity.
	8/12/2020	11:56	ND	9.00	29.71	36.00*	NA	6.29*	Pre-pumping measurement. Unable to measure total depth due to DNAPL viscosity.
	8/13/2020	9:40	ND	8.97	34.00	36.00*	NA	2.0*	Post-pumping measurement ~8 gallons removed. Pumpable DNAPL fully evacuated, but semi-solid/solid high viscosity layer present at 34'.

**Table 1**  
**Polychrome West**  
**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-5 (Cont.)	8/26/2020	9:15	ND	9.29	NM	36.00*	NA	~5	Pre-pumping measurement. Weighted tape utilized to measure total depth (estimated at 38' bgs). ~5' of DNAPL observed on weighted tape. AKRF to verify final well depth during subsequent pumping event after well surging.
	8/26/2020	11:35	ND	-	ND	36.00*	NA	NA	Post-pumping measurement (~40 gallons removed). Pumpable DNAPL fully evacuated, but semi-solid/solid high viscosity layer present at 34'.
	9/10/2020	11:35	ND	8.71	31.40	37.65	NA	6.25	Pre-pumping measurement (Well cut ~3' to grade within last two months)
	9/11/2020	9:35	ND	8.85	ND	37.69	NA	NA	Post-pumping measurement ~7 gallons removed
	9/23/2020	11:00	ND	8.10	30.10	37.65	NA	7.55	Pre-pumping measurement
	9/24/2020	9:45	ND	9.00	ND	37.10	NA	NA	Post-pumping measurement ~5 gallons removed
	10/7/2020	12:20	ND	7.89	29.62	37.50	NA	7.88	Pre-pumping measurement
	10/14/2020	12:45	ND	8.90	ND	37.63	NA	NA	Post-pumping measurement ~6 gallons removed
	10/21/2020	11:00	ND	7.93	30.12	37.61	NA	7.49	Pre-pumping measurement
	10/21/2020	11:30	ND	7.93	ND	38.12	NA	NA	Post-pumping measurement ~10 gallons removed
	11/4/2020	9:00	ND	8.61	30.48	38.08	NA	7.60	Pre-pumping measurement
	11/5/2020	9:30	ND	8.60	ND	38.10	NA	NA	Post-pumping measurement ~10 gallons removed
	11/18/2020	11:40	ND	8.08	29.99	38.02	NA	8.03	
	11/19/2020	9:30	ND	8.06	30.06	38.02	NA	7.96	Pre-pumping measurement
	11/19/2020	10:00	ND	8.09	ND	38.25	NA	NA	Post-pumping measurement ~12 gallons removed
	12/1/2020	11:15	ND	6.62	29.76	38.01	NA	8.25	Pre-pumping measurement
	12/2/2020	9:35	ND	6.60	ND	38.10	NA	NA	Post-pumping measurement ~10 gallons removed
	12/16/2020	11:20	ND	7.79	29.70	38.10	NA	8.40	Pre-pumping measurement
	12/18/2020	10:30	ND	7.52	ND	37.70	NA	NA	Post-pumping measurement ~6 gallons removed
	12/29/2020	11:30	ND	7.97	29.60	38.21	NA	8.61	
	12/30/2020	9:45	ND	8.00	29.57	38.11	NA	8.54	Pre-pumping measurement
	12/30/2020	10:45	ND	8.01	ND	38.22	NA	NA	Post-pumping measurement ~10 gallons removed
NW-6	1/9/2020	10:05	ND	10.82	32.21	38.87	NA	6.66	Pre-pumping measurement ~2 gallons removed
	1/9/2020	10:41	ND	10.83	ND	38.89	NA	NA	Post-pumping measurement.
	1/10/2020	12:50	ND	10.26	ND	39.23	NA	NA	
	1/10/2020	15:00	ND	10.46	ND	39.55	NA	NA	
	2/19/2020	13:00	ND	10.42	32.24	39.55	NA	7.31	Pre-pumping measurement
	2/21/2020	13:05	ND	10.42	ND	39.55	NA	NA	Post-pumping measurement ~7.5 gallons removed
	3/25/2020	11:30	ND	8.88	31.18	38.53	NA	7.35	Well cut down prior to 3/25/20. Pre-pumping measurement.
	3/26/2020	10:00	ND	8.88	ND	38.53	NA	NA	Post-pumping measurement ~7.5 gallons removed
	4/21/2020	11:02	ND	8.45	31.60	38.53	NA	6.93	Pre-pumping measurement
	4/22/2020	11:15	ND	9.15	ND	35.69	NA	NA	Post-pumping measurement ~8 gallons removed
	4/30/2020	10:30	ND	NA	34.02	38.53	NA	4.51	
	5/7/2020	9:50	ND	8.45	32.70	38.53	NA	5.83	
	5/14/2020	14:00	ND	9.49	31.70	38.53	NA	6.83	
	5/19/2020	13:02	ND	9.05	31.39	38.50	NA	7.11	Pre-pumping measurement
	5/21/2020	11:20	ND	9.46	ND	38.51	NA	NA	Post-pumping measurement ~15 gallons removed
	6/12/2020	11:40	ND	9.34	ND	28.59	NA	NA	
	6/24/2020	10:10	ND	9.09	31.40	38.50	NA	7.10	
	6/25/2020	11:15	ND	9.09	ND	38.50	NA	NA	Post-pumping measurement ~8 gallons removed
	6/29/2020	12:20	ND	9.11	34.81	38.70	NA	3.89	
	7/8/2020	10:15	ND	8.96	32.60	38.70	NA	6.10	
	7/15/2020	11:10	ND	8.89	31.40	38.70	NA	7.30	Pre-pumping measurement
	7/16/2020	14:15	ND	8.89	37.70	38.70	NA	1.00	Post-pumping measurement ~8 gallons removed
	7/22/2020	11:45	ND	8.78	37.50	38.64	NA	1.14	
	7/26/2020	12:40	ND	9.32	31.72	38.64	NA	6.92	Pre-pumping measurement
	7/27/2020	9:30	ND	9.32	ND	38.64	NA	NA	Post-pumping measurement ~10 gallons removed
	8/6/2020	11:30	ND	8.74	37.65	38.64	NA	0.99	
	8/12/2020	11:41	ND	9.49	34.78	38.61	NA	3.83	Pre-pumping measurement
	8/13/2020	8:45	ND	9.49	ND	38.61	NA	NA	Post-pumping measurement ~10 gallons removed
	8/26/2020	8:45	ND	6.21	ND	26.24	NA	NA	Pre-pumping measurement, DNAPL depth not indicated on probe. Unable to measure total depth due to high DNAPL viscosity.
	8/26/2020	12:30	ND	8.10	ND	30.19	NA	NA	Post-pumping measurement ~15 gallons removed
	9/10/2020	12:00	ND	9.55	32.85	35.55	NA	2.70	Pre-pumping measurement
	9/11/2020	10:45	ND	9.55	ND	37.26	NA	NA	Post-pumping measurement ~6 gallons removed
	9/23/2020	10:30	ND	8.85	33.50	35.55	NA	2.05	Pre-pumping measurement
	9/24/2020	10:20	ND	9.30	ND	38.40	NA	NA	Post-pumping measurement ~5 gallons removed
	10/7/2020	12:05	ND	9.01	33.26	38.32	NA	5.06	Pre-pumping measurement
	10/14/2020	8:45	ND	8.55	ND	37.20	NA	ND	Post-pumping measurement ~6 gallons removed
	10/21/2020	10:40	ND	9.00	33.37	38.35	NA	4.98	Pre-pumping measurement



**Table 1**  
**Polychrome West**  
**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-6 (Cont.)	10/21/2020	12:00	ND	9.00	ND	38.38	NA	NA	Post-pumping measurement ~5 gallons removed
	11/4/2020	8:45	ND	9.66	32.28	36.06	NA	3.78	Pre-pumping measurement
	11/5/2020	10:00	ND	9.64	ND	38.31	NA	NA	Post-pumping measurement ~10 gallons removed
	11/18/2020	11:25	ND	9.16	33.39	38.10	NA	4.71	
	11/19/2020	10:00	ND	9.15	33.43	38.09	NA	4.66	Pre-pumping measurement
	11/19/2020	10:15	ND	9.16	ND	38.14	NA	NA	Post-pumping measurement ~3 gallons removed
	12/1/2020	11:00	ND	7.98	34.41	37.12	NA	2.71	Pre-pumping measurement
	12/2/2020	10:05	ND	8.01	ND	37.12	NA	NA	Post-pumping measurement ~5 gallons removed
	12/16/2020	11:00	ND	9.20	33.20	37.12	NA	3.92	Pre-pumping measurement
	12/18/2020	12:00	ND	8.70	ND	38.35	NA	NA	Post-pumping measurement ~6 gallons removed
	12/29/2020	11:10	ND	8.75	33.35	38.10	NA	4.75	
	12/30/2020	11:15	ND	8.71	33.33	38.10	NA	4.77	Pre-pumping measurement
	12/30/2020	11:45	ND	8.73	ND	38.12	NA	NA	Post-pumping measurement ~5 gallons removed
NW-7	1/9/2020	14:50	ND	9.59	ND	22.08	NA	NA	
	2/19/2020	11:30	ND	9.55	ND	22.99	NA	NA	
	3/25/2020	9:40	ND	9.37	ND	23.19	NA	NA	Well cut down prior to 3/25/20.
	4/21/2020	9:00	ND	9.19	ND	23.11	NA	NA	
	5/19/2020	11:29	ND	9.49	ND	23.08	NA	NA	
	6/24/2020	8:50	ND	9.19	ND	22.98	NA	NA	
	7/22/2020	9:15	ND	8.94	ND	22.99	NA	NA	
	7/26/2020	11:15	ND	9.14	ND	22.92	NA	NA	
	8/12/2020	10:01	ND	9.33	ND	22.98	NA	NA	
	8/25/2020	12:55	ND	9.24	ND	23.16	NA	NA	
	9/10/2020	9:35	ND	9.40	ND	22.9	NA	NA	
	9/23/2020	8:45	ND	9.24	ND	23.01	NA	NA	
	10/7/2020	10:55	ND	9.24	ND	22.85	NA	NA	
	10/21/2020	8:55	ND	9.02	ND	23.05	NA	NA	
	11/4/2020	7:15	ND	9.15	ND	22.97	NA	NA	
	11/18/2020	10:25	ND	9.37	ND	23.82	NA	NA	
	12/1/2020	9:25	ND	8.89	ND	22.98	NA	NA	
	12/16/2020	9:10	ND	9.41	ND	22.84	NA	NA	
	12/29/2020	9:25	ND	9.14	ND	22.97	NA	NA	
NW-8	1/9/2020	14:36	ND	11.41	33.81	36.20	NA	2.39	
	1/10/2020	12:50	ND	10.43	35.70	36.20	NA	0.50	Pre-pumping measurement ~1.5 gallons removed
	1/10/2020	14:10	ND	10.61	ND	36.25	NA	NA	Post-pumping measurement
	1/10/2020	15:35	ND	10.90	ND	36.34	NA	NA	
	2/19/2020	14:30	ND	10.93	31.64	36.34	NA	4.70	Pre-pumping measurement
	2/19/2020	16:30	ND	10.86	ND	36.34	NA	NA	Post-pumping measurement ~4.5 gallons removed
	3/25/2020	13:00	ND	9.81	32.42	36.30	NA	3.88	Pre-pumping measurement
	3/25/2020	13:30	ND	9.81	ND	36.30	NA	NA	Post-pumping measurement ~4 gallons removed
	4/21/2020	14:05	ND	9.87	32.59	32.64	NA	4.05	Pre-pumping measurement
	4/21/2020	14:55	ND	NA	ND	36.64	NA	NA	Post-pumping measurement ~3 gallons removed
	4/30/2020	10:30	ND	NA	34.20	36.64	NA	2.44	
	5/7/2020	9:50	ND	9.66	33.58	36.64	NA	3.06	
	5/14/2020	14:00	ND	10.83	32.90	36.64	NA	3.74	
	5/19/2020	12:51	ND	10.37	32.92	36.52	NA	3.60	Pre-pumping measurement
	5/20/2020	14:15	ND	10.28	ND	36.52	NA	NA	Post-pumping measurement ~3.25 gallons removed
	6/12/2020	12:00	ND	10.73	34.04	36.52	NA	2.48	
	6/24/2020	13:10	ND	9.90	33.44	36.52	NA	3.08	Pre-pumping measurement
	6/24/2020	14:00	ND	9.90	ND	36.35	NA	NA	Post-pumping measurement ~3 gallons removed
	6/29/2020	12:55	ND	10.50	35.97	36.22	NA	0.25	
	7/8/2020	10:30	ND	10.17	34.52	36.22	NA	1.70	
	7/15/2020	13:00	ND	10.60	34.75	36.20	NA	1.45	Pre-pumping measurement
	7/15/2020	13:30	ND	10.60	ND	36.20	NA	NA	Post-pumping measurement ~2 gallons removed
	7/22/2020	12:10	ND	9.90	35.76	36.25	NA	0.49	
	7/26/2020	14:10	ND	10.21	35.75	36.24	NA	0.49	Pre-pumping measurement
	7/26/2020	14:45	ND	10.21	ND	36.24	NA	NA	Post-pumping measurement ~2 gallons removed
	8/6/2020	12:00	ND	9.93	ND	36.24	NA	NA	
	8/13/2020	11:30	ND	10.11	35.04	36.22	NA	1.18	Pre-pumping measurement
	8/13/2020	12:15	ND	10.11	ND	36.22	NA	NA	Post-pumping measurement ~1.25 gallons removed
	8/25/2020	8:40	ND	10.59	35.65	36.55	NA	0.90	Pre-pumping measurement
	8/25/2020	9:05	ND	10.59	ND	36.55	NA	NA	Post-pumping measurement ~4 gallons removed
	9/10/2020	13:00	ND	10.52	35.35	36.55	NA	1.20	Pre-pumping measurement
	9/10/2020	13:30	ND	10.52	ND	36.55	NA	NA	Post-pumping measurement ~1 gallon removed
	9/23/2020	12:45	ND	9.85	35.70	36.55	NA	0.85	Pre-pumping measurement
	9/23/2020	13:15	ND	9.85	ND	36.55	NA	NA	Post-pumping measurement ~1 gallon removed
	10/7/2020	13:40	ND	9.93	35.24	36.24	NA	1.00	Pre-pumping measurement
	10/7/2020	14:30	ND	9.93	ND	36.24	NA	NA	Post-pumping measurement ~1 gallon removed
	10/21/2020	14:30	ND	9.70	35.33	36.23	NA	0.90	Pre-pumping measurement

**Table 1**  
**Polychrome West**  
**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-8 (Cont.)	10/21/2020	14:45	ND	9.70	ND	36.25	NA	NA	Post-pumping measurement ~0.75 gallons removed
	11/4/2020	9:15	ND	10.75	Trace	38.14	NA	NA	
	11/18/2020	12:50	ND	10.18	35.49	37.54	NA	2.05	Pre-pumping measurement
	11/18/2020	12:50	ND	10.18	ND	37.54	NA	NA	Post-pumping measurement ~2 gallons removed
	12/1/2020	11:55	ND	8.88	35.04	36.32	NA	1.28	Pre-pumping measurement
	12/1/2020	12:30	ND	8.88	ND	36.32	NA	NA	Post-pumping measurement ~1 gallon removed
	12/16/2020	12:45	ND	9.97	35.15	36.30	NA	1.15	Pre-pumping measurement
	12/16/2020	13:15	ND	9.97	ND	36.30	NA	NA	Post-pumping measurement ~1 gallon removed
	12/29/2020	12:00	ND	10.26	35.35	36.28	NA	0.93	Pre-pumping measurement
NW-9	12/29/2020	12:15	ND	10.26	ND	36.28	NA	NA	Post-pumping measurement ~0.75 gallon removed
	1/9/2020	14:40	ND	11.6	ND	33.78	NA	NA	
	2/19/2020	11:30	ND	10.77	ND	34.17	ND	ND	
	3/25/2020	10:00	ND	10.45	ND	33.73	ND	ND	
	4/21/2020	10:10	ND	10.52	ND	33.80	ND	ND	
	5/19/2020	11:37	ND	10.3	ND	33.69	ND	ND	
	6/24/2020	9:23	ND	10.60	ND	33.58	ND	ND	
	7/15/2020	9:45	ND	10.22	ND	33.52	ND	ND	
	7/26/2020	11:26	ND	10.90	ND	33.52	ND	ND	
	8/12/2020	10:56	ND	10.97	ND	33.60	NA	NA	
	8/25/2020	13:00	ND	11.03	ND	33.18	NA	NA	
	9/10/2020	10:30	ND	11.88	ND	33.60	NA	NA	Trace LNAPL on tape
	9/23/2020	9:25	ND	10.22	ND	33.69	NA	NA	
	10/7/2020	NA	NA	NA	NA	NA	NA	NA	Parked vehicle obstructing access to well
	10/14/2020	NA	NA	NA	NA	NA	NA	NA	Parked vehicle obstructing access to well
	10/21/2020	9:30	ND	10.83	32.96	33.56	NA	0.60	Pre-pumping measurement
	10/21/2020	16:15	ND	10.83	ND	33.56	NA	NA	Post-pumping measurement ~0.5 gallons removed
	11/4/2020	8:15	ND	11.27	Trace	33.60	NA	NA	
	11/18/2020	10:50	ND	10.89	ND	34.56	NA	NA	
	12/1/2020	10:10	ND	9.26	ND	33.57	NA	NA	
	12/16/2020	9:55	ND	10.66	ND	33.47	NA	NA	
	12/29/2020	10:40	ND	10.39	ND	33.63	NA	NA	
NW-10	1/9/2020	15:02	ND	11.67	28.12	33.58	NA	5.46	
	1/10/2020	11:00	ND	10.64	27.80	33.90	NA	6.10	Pre-pumping measurement ~6 gallons removed
	1/10/2020	11:25	ND	10.64	ND	33.80	NA	NA	Post-pumping measurement
	1/10/2020	15:30	ND	10.86	ND	33.80	NA	NA	
	2/19/2020	13:30	ND	11.00	27.39	33.80	NA	6.41	Pre-pumping measurement
	2/19/2020	15:00	ND	11.14	ND	33.80	NA	NA	Post-pumping measurement ~4.5 gallons removed
	3/25/2020	14:00	ND	10.00	28.04	33.91	NA	5.87	Pre-pumping measurement
	3/25/2020	13:45	ND	10.00	ND	33.91	NA	NA	Post-pumping measurement ~5 gallons removed
	4/21/2020	12:38	ND	9.86	27.90	33.91	NA	6.01	Pre-pumping measurement
	4/21/2020	13:50	ND	NA	ND	33.78	NA	NA	Post-pumping measurement ~4 gallons removed
	4/30/2020	10:30	ND	NA	27.80	33.78	NA	5.98	
	5/7/2020	9:50	ND	10.00	27.65	33.78	NA	6.13	LNAPL film
	5/14/2020	14:00	ND	11.18	27.30	33.78	NA	6.48	
	5/19/2020	12:40	ND	10.50	27.68	33.75	NA	6.07	Pre-pumping measurement
	5/20/2020	13:15	ND	10.56	ND	33.75	NA	NA	Post-pumping measurement ~4.75 gallons removed
	6/12/2020	12:00	ND	10.09	27.27	33.75	NA	6.48	
	6/24/2020	12:00	ND	10.28	27.43	33.75	NA	6.32	Pre-pumping measurement
	6/24/2020	13:00	ND	10.28	ND	33.64	NA	NA	Post-pumping measurement ~5 gallons removed
	6/29/2020	12:40	ND	10.63	29.27	33.62	NA	4.35	
	7/8/2020	10:45	ND	10.36	27.86	33.62	NA	5.76	
	7/15/2020	13:45	ND	10.69	27.70	34.65	NA	6.95	Pre-pumping measurement
	7/15/2020	14:25	ND	10.69	ND	34.65	NA	NA	Post-pumping measurement ~4 gallons removed
	7/22/2020	12:25	ND	10.16	28.74	34.15	NA	5.41	
	7/26/2020	13:10	ND	10.70	27.55	34.17	NA	6.62	Pre-pumping measurement
	7/26/2020	14:00	ND	10.70	ND	34.17	NA	NA	Post-pumping measurement ~4.75 gallons removed
	8/6/2020	12:20	ND	10.43	27.86	34.17	NA	6.31	
	8/12/2020	13:30	ND	10.93	27.70	33.63	NA	5.93	Pre-pumping measurement
	8/12/2020	14:00	ND	10.93	ND	33.63	NA	NA	Post-pumping measurement ~6.5 gallons removed
	8/25/2020	10:20	ND	10.79	ND	*	NA	NA	Post-pumping measurement ~6 gallons removed. Total depth unobtained due to obstruction at 23'.
	9/10/2020	13:50	ND	10.71	29.75	33.18	NA	3.43	Pre-pumping measurement
	9/10/2020	14:30	ND	10.71	ND	33.18	NA	NA	Post-pumping measurement ~4 gallons removed
	9/23/2020	13:45	ND	9.95	27.70	33.18	NA	5.48	Pre-pumping measurement
	9/23/2020	14:00	ND	9.95	ND	33.18	NA	NA	Post-pumping measurement ~5 gallons removed
	10/7/2020	14:05	ND	10.15	27.23	33.58	NA	6.35	Pre-pumping measurement
	10/7/2020	15:00	ND	10.15	ND	33.58	NA	NA	Post-pumping measurement ~4.5 gallons removed
	10/21/2020	14:50	ND	9.92	28.38	33.57	NA	5.19	Pre-pumping measurement
	10/21/2020	15:45	ND	9.92	ND	33.57	NA	NA	Post-pumping measurement ~4.75 gallons removed
	11/4/2020	9:45	ND	11.08	28.00	33.74	NA	5.74	Pre-pumping measurement

**Table 1**  
**Polychrome West**  
**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-10 (Cont.)	11/4/2020	10:00	ND	11.08	ND	33.74	NA	NA	Post-pumping measurement ~4.25 gallons removed
	11/18/2020	13:25	ND	10.49	27.14	33.75	NA	6.61	Pre-pumping measurement
	11/18/2020	14:15	ND	10.49	ND	33.75	NA	NA	Post-pumping measurement ~4.5 gallons removed
	12/1/2020	12:35	ND	9.19	28.83	33.66	NA	4.83	Pre-pumping measurement
	12/1/2020	13:20	ND	9.19	ND	33.66	NA	NA	Post-pumping measurement ~3.5 gallons removed
	12/16/2020	11:30	ND	10.51	27.80	33.65	NA	5.85	Pre-pumping measurement
	12/16/2020	12:00	ND	10.51	ND	33.65	NA	NA	Post-pumping measurement ~4 gallons removed
	12/29/2020	12:30	ND	10.52	30.90	33.73	NA	2.83	Pre-pumping measurement
	12/29/2020	13:00	ND	10.52	ND	33.73	NA	NA	Post-pumping measurement ~3.5 gallons removed
NW-10S	1/9/2020	15:00	ND	11.15	ND	18.11	NA	NA	
	2/19/2020	11:30	ND	10.60	ND	17.99	NA	NA	
	3/25/2020	9:35	ND	10.59	ND	18.03	NA	NA	
	4/21/2020	9:15	ND	10.25	ND	18.06	NA	NA	
	5/19/2020	11:45	ND	10.44	ND	18.00	NA	NA	
	6/24/2020	8:37	ND	10.39	ND	17.98	NA	NA	
	7/15/2020	9:00	ND	10.2	ND	18.00	NA	NA	
	7/26/2020	11:36	ND	10.55	ND	18.00	NA	NA	
	8/12/2020	10:14	ND	10.60	ND	18.04	NA	NA	
	8/26/2020	10:25	ND	10.55	ND	18.61	NA	NA	
	9/10/2020	9:30	ND	10.57	ND	18.00	NA	NA	
	9/23/2020	9:05	ND	9.94	ND	18.03	NA	NA	
	10/7/2020	10:45	ND	10.50	ND	18.00	NA	NA	
	10/21/2020	9:25	ND	10.49	ND	18.02	NA	NA	
	11/4/2020	7:25	ND	10.33	ND	18.04	NA	NA	
	11/18/2020	10:35	ND	10.51	ND	18.04	NA	NA	
	12/1/2020	9:40	ND	9.82	ND	18.01	NA	NA	
	12/16/2020	9:00	ND	10.82	ND	17.92	NA	NA	
	12/29/2020	9:00	ND	10.57	ND	18.02	NA	NA	
NW-11	1/9/2020	9:07	ND	6.06	17.51	24.37	NA	6.86	Pre-pumping measurement ~ 3 gallons removed
	1/9/2020	9:36	ND	9.03	ND	24.81	NA	NA	Post-pumping measurement.
	1/10/2020	9:50	ND	6.07	ND	24.38	NA	NA	
	1/10/2020	14:50	ND	6.04	ND	24.39	NA	NA	
	2/19/2020	13:00	ND	5.96	22.31	24.39	NA	2.08	Pre-pumping measurement
	2/21/2020	9:50	ND	5.96	ND	24.39	NA	NA	Post-pumping measurement ~3 gallons removed
	3/25/2020	11:05	ND	5.98	ND	24.52	NA	NA	
	3/26/2020	10:05	ND	5.98	24.2	24.6	NA	0.4	Pumping not completed (less than 0.5 feet of DNAPL)
	4/21/2020	10:16	ND	5.80	23.48	24.6	NA	1.12	Pre-pumping measurement
	4/22/2020	10:15	ND	8.53	ND	26.68	NA	NA	Post-pumping measurement ~4 gallons removed
	4/30/2020	10:30	ND	NA	ND	26.68	NA	NA	
	5/7/2020	9:50	ND	5.45	23.95	26.68	NA	2.73	LNAPL film
	5/14/2020	14:00	ND	5.78	23.75	26.68	NA	2.93	
	5/19/2020	12:30	ND	8.90	23.74	26.65	NA	2.91	Pre-pumping measurement
	5/21/2020	9:15	ND	12.16	ND	26.68	NA	NA	Post-pumping measurement ~10 gallons removed
	6/12/2020	12:00	ND	6.09	23.96	26.68	NA	2.72	
	6/24/2020	9:30	ND	5.85	23.85	26.68	NA	2.83	Pre-pumping measurement
	6/25/2020	9:15	ND	5.85	ND	26.68	NA	NA	Post-pumping measurement ~4 gallons removed
	6/29/2020	12:00	ND	6.01	23.79	24.73	NA	0.94	
	7/8/2020	10:00	ND	6.10	23.30	24.73	NA	1.43	
	7/15/2020	10:50	ND	5.87	22.86	24.58	NA	1.72	Pre-pumping measurement
	7/16/2020	10:30	ND	5.87	ND	24.55	NA	NA	Post-pumping measurement ~4 gallons removed
	7/22/2020	11:30	ND	5.99	24.31	24.55	NA	0.24	
	7/26/2020	12:20	ND	5.95	23.17	24.56	NA	1.39	Pre-pumping measurement
	7/27/2020	8:50	ND	5.97	ND	24.56	NA	NA	Post-pumping measurement ~2 gallons removed
	8/6/2020	11:10	ND	5.97	24.40	24.56	NA	0.16	
	8/12/2020	11:33	ND	6.03	< 6"	24.69	NA	NA	No product detected, minor NAPL on probe.
	8/25/2020	14:00	ND	5.98	ND	24.84	NA	NA	No product detected, minor NAPL on probe.
	9/10/2020	11:15	ND	6.10	23.20	24.53	NA	1.33	Pre-pumping measurement
	9/11/2020	8:05	ND	8.35	ND	24.68	NA	NA	Post-pumping measurement ~2 gallons removed
	9/23/2020	10:00	ND	6.21	24.35	24.53	NA	0.18	
	10/7/2020	11:55	ND	4.13	21.71	22.80	NA	1.09	Pre-pumping measurement
	10/14/2020	8:30	ND	5.70	ND	22.90	NA	ND	Post-pumping measurement ~3 gallons removed
	10/21/2020	10:25	ND	4.12	ND	22.87	NA	NA	
	11/4/2020	8:25	ND	4.08	ND	22.73	NA	NA	
	11/18/2020	11:15	ND	4.11	Trace	23.36	NA	NA	
	12/1/2020	10:00	ND	3.95	Trace	22.81	NA	NA	
	12/16/2020	10:15	ND	4.09	Trace	22.85	NA	NA	
	12/29/2020	10:50	ND	4.01	ND	22.79	NA	NA	



**Table 1**  
**Polychrome West**  
**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-12	1/9/2020	12:01	ND	6.98	ND	24.21	NA	NA	
	2/19/2020	11:30	ND	6.89	ND	23.94	NA	NA	
	3/25/2020	10:10	ND	13.75	ND	20.95	NA	NA	Well cut down prior to 3/25/20.
	4/21/2020	9:20	ND	3.61	ND	21.09	NA	NA	
	5/19/2020	11:55	ND	3.74	ND	21.04	NA	NA	
	6/24/2020	8:53	ND	3.35	ND	21.03	NA	NA	
	7/15/2020	9:05	ND	3.63	ND	21.04	NA	NA	
	7/26/2020	11:45	ND	3.71	ND	21.09	NA	NA	
	8/12/2020	9:56	ND	3.81	ND	21.07	NA	NA	
	8/25/2020	13:10	ND	3.79	ND	21.32	NA	NA	
	9/10/2020	10:00	ND	3.94	ND	21.10	NA	NA	
	9/23/2020	9:00	ND	3.95	ND	21.21	NA	NA	
	10/7/2020	11:15	ND	3.75	ND	21.10	NA	NA	
	10/21/2020	8:50	ND	3.76	ND	21.25	NA	NA	
	11/4/2020	7:35	ND	3.86	ND	21.20	NA	NA	
	11/18/2020	10:20	ND	4.02	ND	21.89	NA	NA	
	12/1/2020	9:20	ND	3.70	ND	21.29	NA	NA	
	12/16/2020	9:05	ND	3.98	ND	21.13	NA	NA	
	12/29/2020	9:05	ND	3.92	ND	21.14	NA	NA	

**Notes:** Pre/post pumping event readings are bolded.  
LNAPL - Light Non-Aqueous Phase Liquid  
DNAPL - Dense Non-Aqueous Phase Liquid  
\* - Estimated due to High Viscous DNAPL  
NA - Not Applicable  
NM - Not Measurable (High Viscosity)

**Table 2**  
**Polychrome West**  
**Yonkers, NY**  
 DNAPL Recovery Totals

Recovery Event	DNAPL Recovered Volume (gal)												Disposal Info		
	NW-1	NW-3	NW-4	NW-5	NW-6	NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	Monthly Total	Date Generated	Off-Site Disposal Date	Disposal Location
Jan-20	NA	NA	NA	7	2	NA	1.5	NA	6	3	NA	19.5	1/9 - 1/10/20	2/21/2020	Veolia ES
Feb-20	NA	NA	NA	7.5	7.5	NA	4.5	NA	4.5	3	NA	27	2/19 and 2/21/20	2/21/2020	Veolia ES
Mar-20	NA	NA	NA	7.5	7.5	NA	4	NA	5	NA	NA	24	3/25 and 3/26/20	5/20/2020	Veolia ES
Apr-20	NA	NA	NA	8	8	NA	3	NA	4	4	NA	27	4/21 and 4/22/20	5/20/2020	Veolia ES
May-20	NA	NA	NA	30	15	NA	3.25	NA	4.75	10	NA	63	5/20 and 5/21/20	7/29/2020	Veolia ES
Jun-20	NA	NA	NA	8	8	NA	3	NA	5	4	NA	28	6/24 and 6/25/20	7/29/2020	Veolia ES
Jul-20	NA	NA	NA	11	18	NA	4	NA	8.75	6	NA	47.75	7/15, 7/16, 7/26, and 7/27	7/29/2020	Veolia ES
Aug-20	NA	NA	NA	48	25	NA	5.25	NA	12.5	NA	NA	90.75	8/12, 8/13, 8/24, and 8/25	8/26/2020	Veolia ES
Sep-20	NA	NA	NA	12	11	NA	2	NA	9	2	NA	36	9/10, 9/11, 9/23, and 9/24	10/8/2020	Veolia ES
Oct-20	NA	NA	NA	16	11	NA	1.75	0.5	9.25	3	NA	41.5	10/7, 10/14, and 10/21	11/18/2020	Veolia ES
Nov-20	NA	NA	NA	22	13	NA	2	NA	8.75	NA	NA	45.75	11/4, 11/5, 11/18, and 11/19	12/21/2020	Veolia ES
Dec-20	NA	NA	NA	26	16	NA	2.75	NA	11	NA	NA	55.75	12/1, 12/2, 12/16, 12/18, 12/29, and 12/30	*12/21/2020/ Pending	Veolia ES
<b>TOTAL TO DATE:</b>												<b>506</b>	gallons		

**Notes:**      \* On December 21, 2020, Veolia ES disposed of 34.5 gallons of DNAPL generated at NW-5, NW-6, NW-8, and NW-10, including 15 gallons of DNAPL generated on November 19, 2020 and 19.5 gallons of DNAPL generated on December 1 and 2, 2020. The 34.25 gallons of DNAPL that were generated at NW-5, NW-6, NW-8, and NW-10 on December 18 and 30, 2020 are currently pending off-site disposal.

**DNAPL - Dense Non-Aqueous Phase Liquid**

**NA - Not Applicable**

**ATTACHMENT A – VES AND BROOKSIDE MANIFESTS**



PHONE: 631.608.8810  
FAX: 631.608.8811

**B BROOKSIDE**  
**ENVIRONMENTAL**  
www.brooksideweb.com

Transporter Permit #1A-644  
EPA ID #NYR000081661  
BIC # 2935

NON-HAZARDOUS MANIFEST		1. Customer's US EPA ID NO. Not Required	Document No. —	2. Page 1 of 1
3. Generator Site Address and Mailing Address Avalon Yonkers Sun Sites LLC 1499 Post Road, Fairfield, CT 06824		Site: Polychrome West 137-145 Alexander ST. Yonkers, NY 10701		A. Document Number BEI 121020-1
4. Phone 201-694-3957				B. State ID
5. Transporter 1 Company Name Brookside Environmental, Inc.		6. US EPA ID Number NYR000081661		C. State Transporter's ID 1A-644
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (631) 608-8810
9. Designated Facility Name and Site Address Clean Water of New York 3249 Richmond Terrace Staten Island, NY 10303		10. US EPA ID Number NYD000968545		E. State Transporter's ID F. Transporter's Phone G. State Facility's ID H. Facility's Phone (718) 981-4600
11. US DOT Description (Including Proper Shipping Name)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous		X1 DM	200	P
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous		X2 DM	100	G
c.				
d.				
J. Additional Descriptions for Materials Listed Above a) Used PPE b) Purge + decon water		K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information a) App# 237-028 203 b) App# 237-029 238				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.				
Printed / Type Name		Signature		DATE Month Day Year 12 10 20
17. Transporter 1 Acknowledgement of Receipt of Materials		DATE		
Printed / Type Name Michael Librizzi		Signature Michael Librizzi		DATE Month Day Year 12 10 20
18. Transporter 2 Acknowledgement of Receipt of Materials		DATE		
Printed / Type Name Mitch Carr (AVR)		Signature		DATE Month Day Year 10 10 20
19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.				
Printed / Typed Name Alexia Acavado		DATE Month Day Year 12 10 20		

BS

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number				
		NYD001833847	1	(877) 818-0087	001802172 VES				
5. Generator's Name and Mailing Address AVIATION SUN SERVICES LLC PATRICK MCNUGH POLYCHROME WEST 34 SOUTH BROADWAY SUITE #401 WHITE PLAINS, NY 10701 Generator's Phone: 914 415 7200		Generator's Site Address (if different than mailing address) 130-145 ALEXANDER STREET BUILDING 2 YONKERS, NY 10701							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJ D 0 8 0 6 3 1 3 6 9							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS LLC 1 EDEN LANE FLANDERS, NJ 07836 Facility's Phone: 973 347-7111		U.S. EPA ID Number NJ D 9 8 0 5 3 6 5 9 3							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
		1. X	1	DM	300	P	F002	F005	D018
							F003	D001	D021
2.									
3.									
4.									
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS -/- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf -/- 1/W:973068 A:MARFS									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Jon LAZIVICRE		Signature 		Month Day Year 12 21 20					
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Michael L. Smith		Signature 		Month Day Year 12 21 20					
Transporter 2 Printed/Typed Name		Signature		Month Day Year					
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number									
18b. Alternate Facility (or Generator) U.S. EPA ID Number									
Facility's Phone: Month Day Year									
18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a									
Printed/Typed Name Eric Sme		Signature 		Month Day Year 12 21 20					