



Environmental, Planning, and Engineering Consultants

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September 30, 2020

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

Re: Progress Report – August 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 August 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 August 2020.
- On August 6, 12, 13, 25, and 26, 2020, 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 August 2020, no on-Site excavation activities below the final cover system occurred.
- On August 6, 12, 13, 25, and 26, 2020, DNAPL gauging was conducted at NW-5, NW-6, NW-8, NW-10, and NW-11. On August 12 and 25, 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 August 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.

Recovery Well ID	DNAPL Thickness 8/6/20 (feet)	DNAPL Thickness 8/12-13/20 (feet)	DNAPL Thickness 8/25-26/20 (feet)
NW-5	3.39*	6.29*	~5.00*
NW-6	0.99	3.83	ND**
NW-8	ND	1.18	0.90
NW-10	6.31	5.93	5.15
NW-11	0.16	ND	ND

NM – No Measurement

ND – None Detected

* - Thickness estimated based on estimated sump measurement (probe could not go through viscous DNAPL that has accumulated in the bottom of the sump). Updated sump measurement will be completed in September and the July/August 2020 reported DNAPL thicknesses will be revised to reflect the updated sump depth measurement.

** - No DNAPL measured from probe due to high viscosity of DNAPL; however, 15 gallons were pumped from well during the DNAPL recovery event.

Note: Measured DNAPL thicknesses are estimated.

- On August 11, 2020, AKRF performed oversight during successful pressure testing activities on the sub-slab depressurization system (SSDS) risers R-1 through R-3 and vertical riser VR-1. After the pressure test was completed, the SSDS manifold, fan, magnehelic gauges and differential pressure switch were installed. On August 13, 2020, AKRF inspected the SSDS blower and confirmed that it was operational. Vacuum readings at the sub-slab monitoring points (MP-1 through MP-3) were within acceptable ranges as outlined within the SMP. During the SSDS start-up, it was noted that the SSDS alarm light was not functioning properly when the SSDS was turned off. AKRF re-inspected and performed troubleshooting activities on the SSDS alarm on August 26, 2020, and determined that the differential pressure switch would need to be replaced. AKRF will include details of the SSDS differential pressure switch repair activities in the September 2020 monthly report.
- On August 13, 2020, AKRF notified NYSDEC via email that the Site has received its temporary certificate of occupancy for the on-Site building (a.k.a. "Building 2").
- On August 12, 13, and 25, 2020, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells NW-8 (~5.25 gallons total) and NW-10 (~12.5 gallons total). 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 August 13 and 26, 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 (~48 gallons total) and NW-6 (~25 gallons total) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the respective recovery well. It should be noted that a surge block connected to a 1-inch PVC riser was used prior to pumping the DNAPL at NW-5, which likely led to increased recovery of groundwater along with the recovered DNAPL. Due to the depth and high viscosity of the DNAPL, recovery rates continue to be poor at NW-5 and the measurable post-pumping measurable thickness was greater than 6 inches. AKRF, in consultation with NYSDEC, is continuing to evaluate alternative long-term recovery methods that would increase recovery rates and achieve post-pumping measurable thicknesses less than 6 inches. 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. No measurable product was detected at recovery well NW-11 with the oil/water interface probe during the DNAPL pumping events in August.

- On August 25, 2020, Brookside Environmental removed one drum of used personal protective equipment (PPE) and oily debris generated during previous DNAPL recovery events. The drum was 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 August 26, 2020, Veolia Environmental Services (VES) picked up one drum of DNAPL generated during the August 2020 DNAPL pumping events for off-site disposal at their facility in Flanders, New Jersey. The final hazardous waste disposal manifest is included in Attachment A and will be included in the PRR for 2020.
- A total of 90.75 gallons of DNAPL was recovered during the reporting period, and 327 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 September 2020 using the same methods as described above while long-term trends and alternate recovery methods are evaluated.
- During the month of August 2020, topsoil was imported to the Site from Anthony Bulfamente Rye Brook Landscaping, a NYSDEC-approved source, and was used for general grading. A total of 60 cubic yards of top soil were imported to the Site and use on the western portion of the Site, adjacent to the engineered shoreline. Approved import material tickets will be included in the PRR for 2020.

The following work is planned for September:

- Grading activities with NYSDEC-approved topsoil;
- General site work above the Site-Wide Cover System;
- SSDS differential switch and alarm repair;
- NAPL recovery well monitoring and NAPL recovery at a frequency of twice per month; 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.



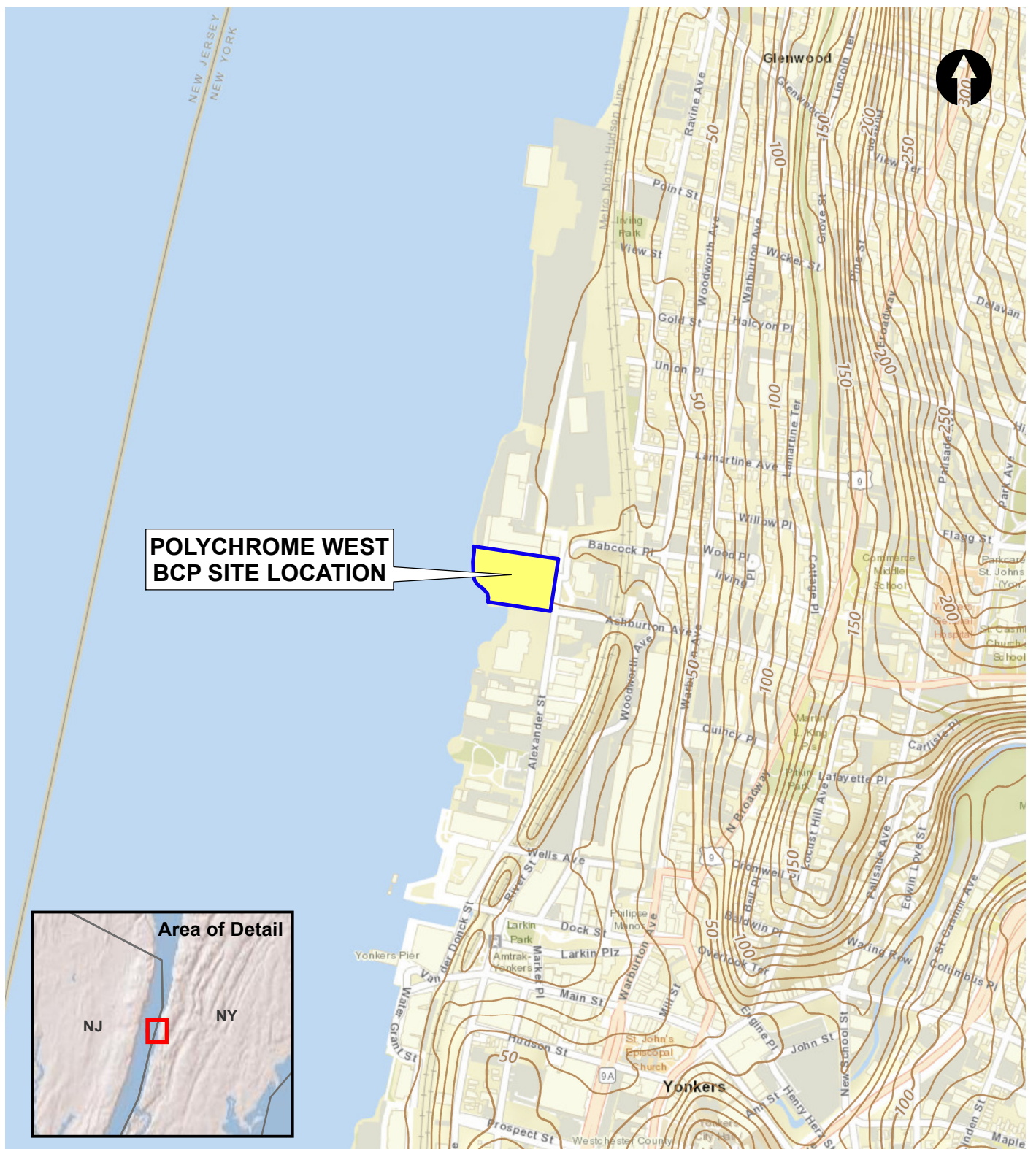
Patrick McHugh, P.E.
Environmental Engineer

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 – Brookside and VES 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.



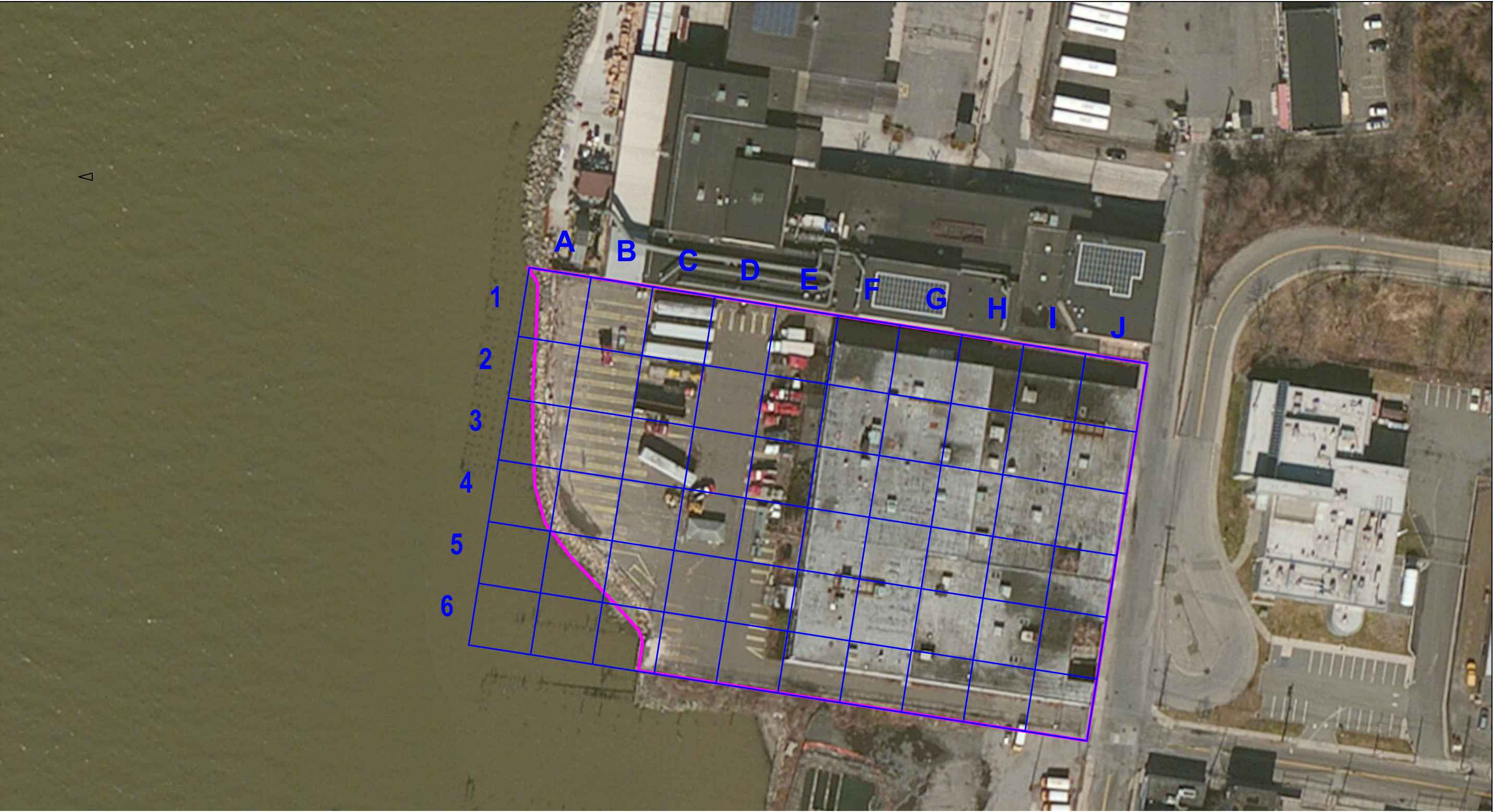
34 S. Broadway #401, White Plains, NY 10601

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


SITE LOCATION MAP

DATE 12/19/2019
PROJECT NO. 180017
FIGURE 1

©2018 AKRF, Inc Q:\Projects\40566 - AVALONBAY YONKERSTechnical\Hazmat\CAD\40566 Fig 2 WC Grid (Polychrome West).dwg last save: mvelieux 1/5/2018 2:34 PM




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

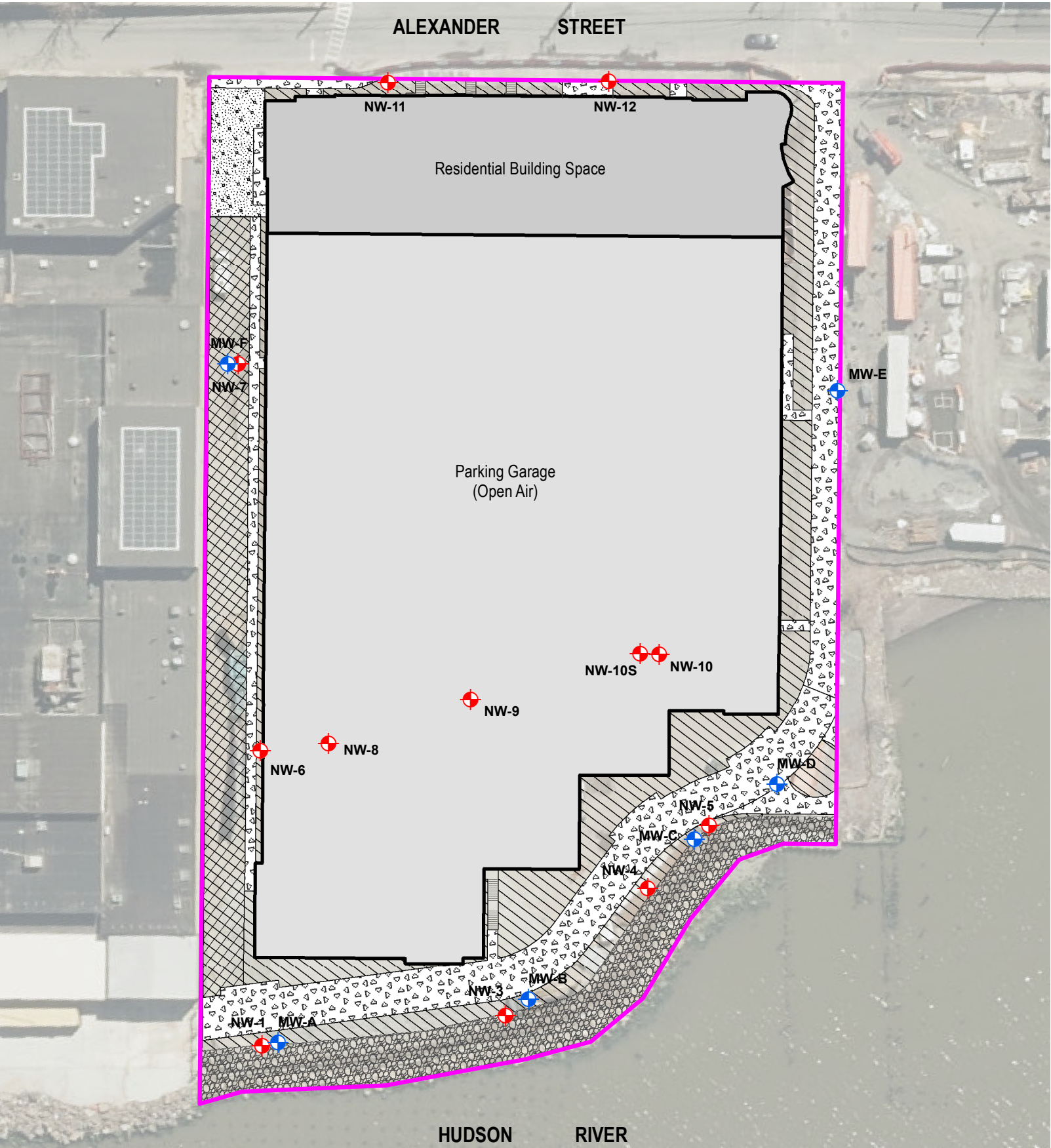
SITE PLAN WITH REFERENCE GRID

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



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 and rip rap placement were imported from AutoCAD layers provided/completed by Paulus, Sokolowski and Sartor Architecture & Engineering, P.C. on April 5, 2018 as part of the Remedial Action Workplan

- 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	
MW-B	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	
MW-C	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	
	8/25/2020	11:05	ND	8.50	ND	12.58	NA	NA	
MW-D	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	
	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	
MW-E	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	
MW-F	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	
NW-1	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	
NW-3	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	
	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	

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-4	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	
NW-5	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 (additonal 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 gal. removed. Pumpable DNAPL fully evacuated, but semi-solid/solid high viscosity layer present at 34'.
	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	2.0*	Post-pumping measurement (~40 gallons removed). Pumpable DNAPL fully evacuated, but semi-solid/solid high viscosity layer present at 34'.
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

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-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	
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
NW-9	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	33.6	NA	NA	
	8/25/2020	13:00	ND	11.03	ND	33.18	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	9:25	ND	10.79	28.03	33.18	NA	5.15	Pre-pumping measurement
	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'.

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-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	
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.
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	

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
Notes:	DNAPL - Dense Non-Aqueous Phase Liquid NA - Not Applicable								TOTAL TO DATE:			327	gallons		

ATTACHMENT A – BROOKSIDE AND VES MANIFESTS



SHIPPING DOCUMENT		1. Generator ID Number NYV809	2. Page 1 of 1	3. Emergency Response Phone (877) 812-0087	4. Shipping Document Tracking Number ZZ 00852506				
5. Generator's Name and Mailing Address POLYCHROME WEST 34 SOUTH BROADWAY SUITE #401 WHITE PLAINS, NY 10701 Generator's Phone: 203-415-7300		6. Generator's Site Address (if different than mailing address) 130-145 ALEXANDER STREET BUILDING 2 YONKERS, NY 10701							
7. Transporter 1 Company Name VEOLIA ENVIRONMENTAL SOLUTIONS		U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9							
8. Designated Facility Name and Site Address VEOLIA ENVIRONMENTAL SOLUTIONS L.L.C. 1 EDEN LANE FLANDERS, NJ 07836		U.S. EPA ID Number N J 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 No. Type	11. Total Quantity				
GENERATOR 1. UN1993, WASTE FLAMMABLE LIQUIDS, D.O.S., (BENZENE, COAL TAR), 3, II 2. 3. 4.				1	DM	400	P	13. Codes	
								D001	3
								D018	
14. Special Handling Instructions and Additional Information agency authority on initial transporter to add or substitute additional transporters on generator's behalf - W:787344 A									
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.									
16. International Shipments Generator's/Officer's Printed/Typed Name: William C. Jackson <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: 8/26/20 Date leaving U.S.: 8/26/20									
17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name: Kenneth P. ... Transporter 2 Printed/Typed Name: ...									
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									
18b. Alternate Facility (for Generator) Shipping Document Tracking Number: ZZ 00852506 U.S. EPA ID Number: N J D 9 8 0 5 3 6 5 9 3									
18c. Signature of Alternate Facility (for Generator) ...									
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems) 1. H141 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a Printed/typed Name: ... Signature: ... Month Day Year: 08/26/20									

DESIGNATED FACILITY TO GENERATOR