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August 18, 2020

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

Re: Progress Report – July 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 July 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 July 2020.
- On July 15, 16, 26, and 27, 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 July 2020, no on-Site excavation activities below the final cover system occurred. Building construction.
- On July 8, and 22, 2020, DNAPL gauging was conducted at NW-5, NW-6, NW-8, NW-10, and NW-11. On July 15 and 26, 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 July 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 7/8/20 (feet)	DNAPL Thickness 7/15/20 (feet)	DNAPL Thickness 7/22/20 (feet)	DNAPL Thickness 7/26/20 (feet)
NW-5	6.86	7.16	4.18*	6.37*
NW-6	6.10	7.30	1.14	6.92
NW-8	1.70	1.45	0.49	0.49
NW-10	5.76	6.95	5.41	6.62
NW-11	1.43	1.72	0.24	1.39

* - 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 August and the July 2020 reported DNAPL thicknesses will be revised to reflect the updated sump depth measurement.
Note: Measured DNAPL thicknesses are estimated.

- On July 15 and 26, 2020, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells NW-8 (~4 gallons total) and NW-10 (~8.75 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 July 16 and 27, 2020, AKRF performed oversight during additional DNAPL removal, which was completed by Eastern Environmental of Manorville, New York (Eastern). Measurable DNAPL was removed from recovery wells NW-5 (~11 gallons total), NW-6 (~18 gallons total), and NW-11 (~6 gallons total) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the respective recovery well. Due to the depth and high viscosity of the DNAPL, recovery rates were poor in NW-5. The measurable post-pumping measurable thickness was greater than 6 inches. AKRF, in consultation with NYSDEC, are 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.
- On July 16, 2020, Eastern 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 July 29, 2020, Veolia Environmental Services (VES) picked up two drums of DNAPL generated during the May, June, and July 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 47.75 gallons of DNAPL was recovered during the reporting period, and 236.25 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 July 2020 using the same methods as described above while long-term trends and alternate recovery methods are evaluated.
- During the month of July 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 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 August:

- Grading activities with NYSDEC-approved Category 1 soil, ¾-inch gravel, top soil and/or trap rock screenings;
- SSDS installation and startup (finalizing vertical riser location and chase);
- 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.

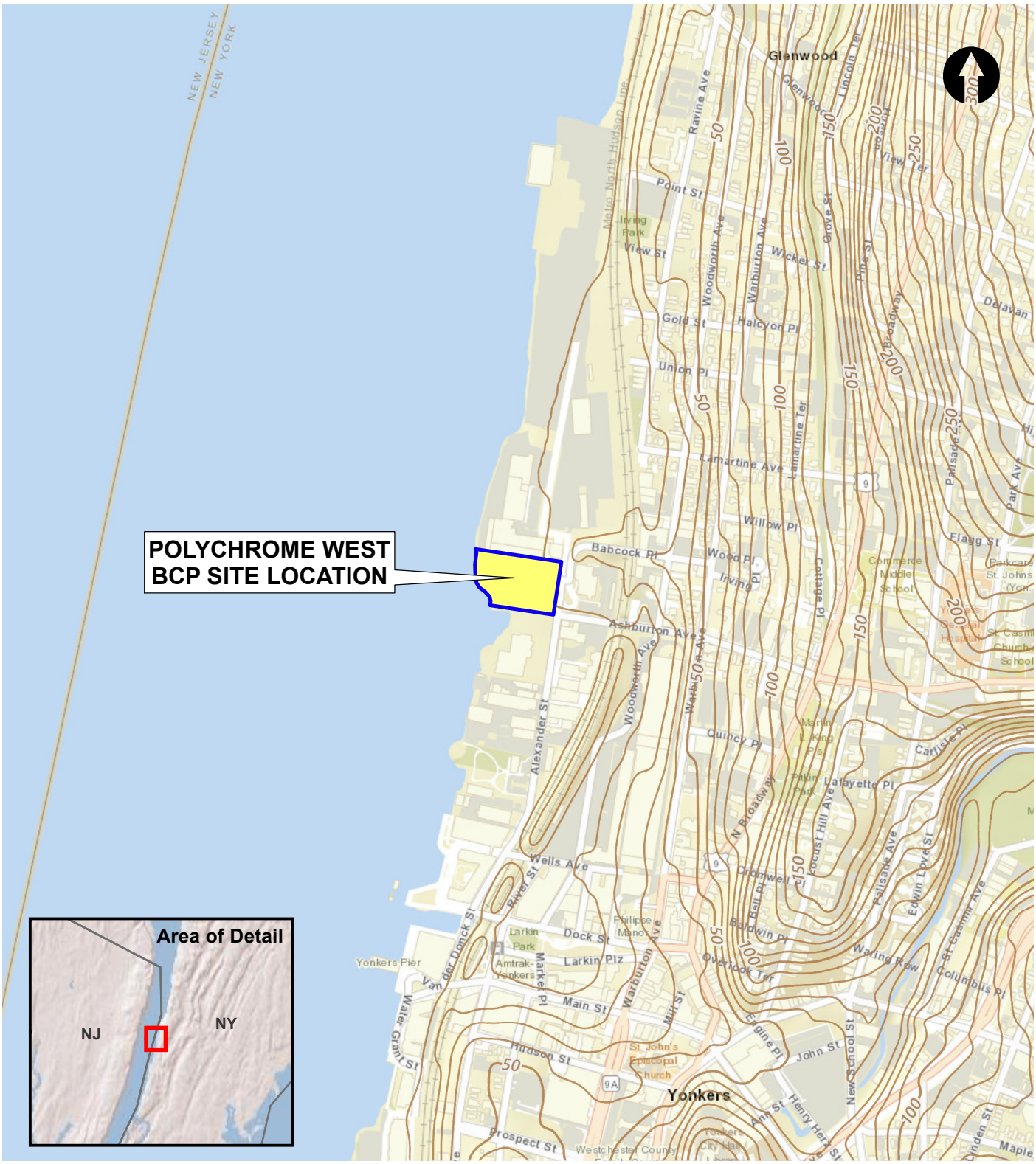
Sincerely,
AKRF, Inc.

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 – Eastern and VES Manifests

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

ATTACHMENTS



Service Layer Credits: ESRI Worlwide 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.

0 800 1,600

SCALE IN FEET

AKRF
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

LEGEND

PROJECT SITE BOUNDARY

A
1
ALPHANUMERIC GRID

0 40 80 160
SCALE IN FEET

Aerial Source:
2014 New York Statewide Digital Orthoimagery.

AKRF
440 Park Avenue South, New York, NY 10016

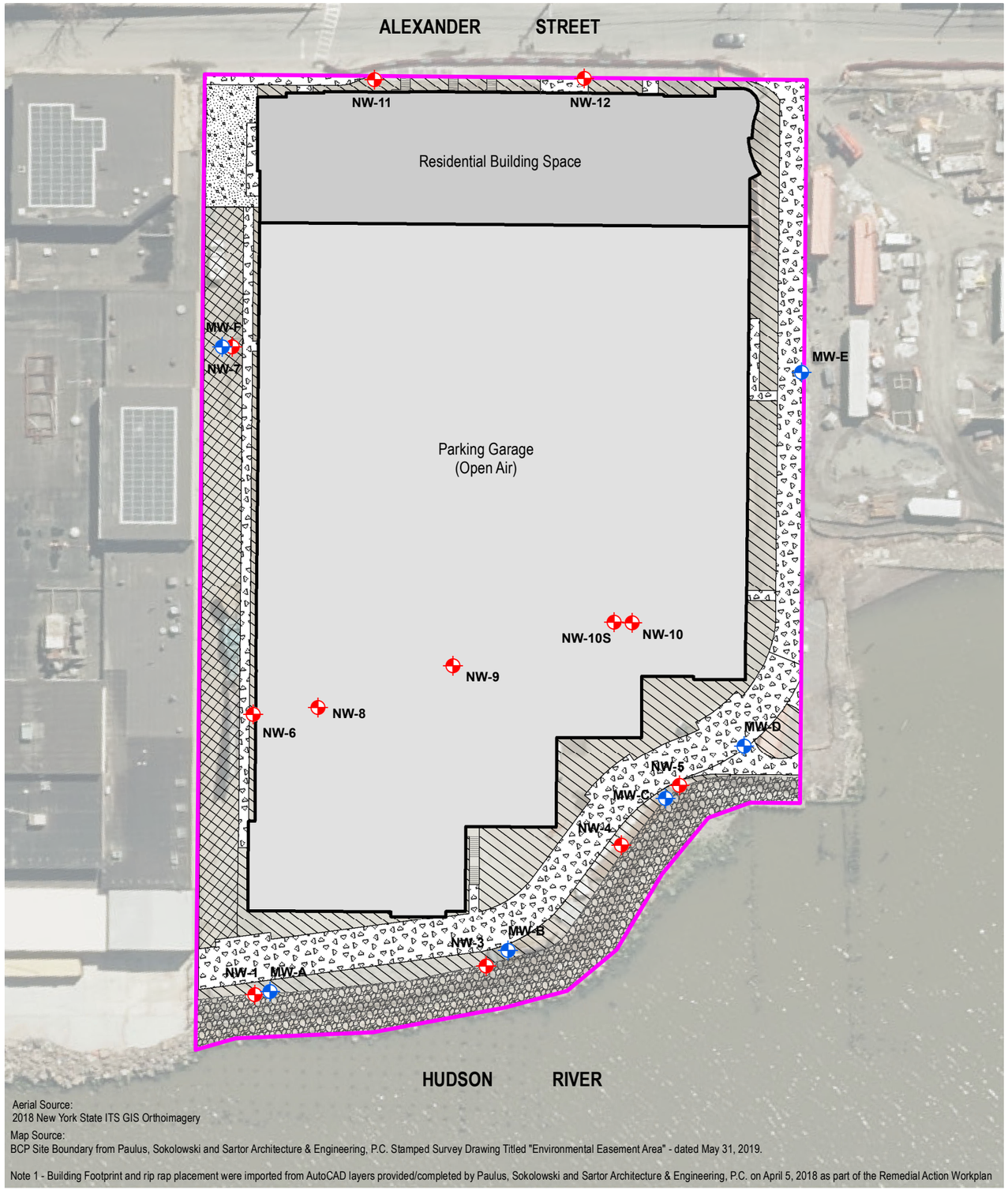
Polychrome West Site
BCP Site C360099
Yonkers, New York

SITE PLAN WITH REFERENCE GRID

DATE

PROJECT NO.
40566

FIGURE
2



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)

0 30 60 120

SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

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

NAPL RECOVERY & GROUNDWATER MONITORING WELL LOCATION PLAN

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	
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	
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	
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	
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	12.50	NA	NA	
	7/26/2020	9:45	ND	9.13	ND	12.52	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	
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	
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	
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.

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	**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. **<u>* = ESTIMATED</u>**
	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**
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 Gal. 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 Gal. 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 Gal. 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 Gal. 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 Gal. 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 Gal. 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	
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**

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-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	
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**
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	10.20	ND	18.00	NA	NA	
	7/26/2020	11:36	ND	10.55	ND	18.00	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**
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	

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 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
									TOTAL TO DATE:			**236.25**	gallons		

Notes: **DNAPL - Dense Non-Aqueous Phase Liquid**
NA - Not Applicable

ATTACHMENT A – EASTERN AND VES MANIFESTS

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

WD 31235

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
AVALON SOLAR SITES
130 ~~#45~~ Alexander St.
Truckee, NY

Generator's Site Address (if different than mailing address)
130-MT ALEXANDER ST.
VONDALIA NY

Generator's Phone:

6. Transporter 1 Company Name
EASTERN ENVIRONMENTAL SOLUTIONS

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEANWATER NY
324/9 Richmond Terr
STATEN ISLAND NY.

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ oily/PPE	1	DM	40	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. 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.

Generator's/Offeror's Printed/Typed Name: Robert Ramroop — Signature — Month 7 Day 16 Year 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Kidd — Signature — Month 7 Day 16 Year 20

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Alexian Acevedo — Signature — Month 7 Day 20 Year 20

TRANSPORTER #1

VEOLIA
ENVIRONMENTAL SERVICES

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	NYV5QG	1	(877) 918-0087	ZZ 00792985

GENERATOR

5. Generator's Name and Mailing Address: PATRICK MCHUGH
POLYCHROME WEST
34 SOUTH BROADWAY SUITE #401
WHITE PLAINS, NY 10701
Generator's Phone: 203 415-7399

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: NJD080631369

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: VEOLIA ES TECHNICAL SOLUTIONS L.L.C.
1 EDEN LANE
FLANDERS, NJ 07836
Facility's Phone: 973 347-7111 — U.S. EPA ID Number: NJD980536503

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, COAL TAR), 3, II	2	DM	800	P	D001 D018	B	
	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:797344 A: MARPULP#1

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.

Generator's/Offeror's Printed/Typed Name: John Fitz — Signature: [signature] — Month: 07 Day: 29 Year: 20

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Shipment

Transporter 1 Printed/Typed Name: Daryl Thomas — Signature: [signature] — Month: 07 Day: 29 Year: 20

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Shipping Document Tracking Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a

Printed/Typed Name: Dennis Connell — Signature: [signature] — Month: 07 Day: 29 Year: 20

DESIGNATED FACILITY TO GENERATOR