

#### Environmental, Planning, and Engineering Consultants

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May 22, 2020

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

Re: Progress Report – April 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 April 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 April 2020.
- On April 21 and 22, 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 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 April 2020, no on-Site excavation activities below the final cover system occurred. Building construction, general site work, and landscaping work were performed throughout this period.
- On April 15, 2020, NYSDEC requested via email that NAPL monitoring wells NW-5, NW-6, NW-8, NW-10, and NW-11 be gauged on a more frequent (weekly or bi-weekly) basis. Since receipt of this email, AKRF has performed weekly gauging of NAPL monitoring wells NW-5, NW-6, NW-8, NW-10, and NW-11.
- On April 21, 2020, AKRF completed the monthly gauging of the following groundwater monitoring and non-aqueous phase liquid (NAPL) 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 was detected in NW-5 (~7.23-ft.), NW-6 (~6.93-ft.), NW-8 (~4.05-ft.), NW-10 (~6.01-ft.),

- and NW-11 (~1.12-ft.). NAPL recovery wells are equipped with 3-foot sumps. Monthly gauging results for the April 2020 reporting period are included in Table 1.
- On April 21, 2020, AKRF performed DNAPL removal activities with a 2-inch submersible pump and dedicated tubing at recovery wells NW-8 (~3 gallons) and NW-10 (~4 gallons). 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 April 22, 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 (~8 gallons), NW-6 (~8 gallons), and NW-11 (~4 gallons) utilizing a vacuum truck to apply vacuum on an internal 1-inch pipe within the respective recovery well. During this recovery event, DNAPL was pumped from recovery well NW-5 for approximately 2 hours. Due to poor recovery rates, time constraints, and the high viscosity DNAPL, the measurable post-pumping measurable thickness was greater than 6 inches (~3.44 feet). 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.
- A total of 27 gallons of DNAPL was recovered during the reporting period, and 97.5 gallons of DNAPL have been recovered in total (year to date). DNAPL recovery totals are summarized in Table 2.
- On April 22, 2020, Eastern removed one drum of used personal protective equipment (PPE) and oily
  debris generated during previous NAPL gauging events. The drum was disposed of at Clean Waters of
  New York in Staten Island, New York. The final disposal manifests will be included in the PRR for
  2020.
- On April 30, 2020, AKRF performed the weekly gauging of the following NAPL monitoring recovery wells: NW-5, NW-6, NW-8, NW-10, and NW-11. DNAPL was detected in NW-5 (~6.94-ft.), NW-6 (~4.51-ft.), NW-8 (~2.44-ft.), and NW-10 (~5.98-ft.). No measurable thickness of DNAPL was detected in NW-11. NAPL recovery wells are equipped with 3-foot sumps. The weekly gauging results conducted on April 30, 2020 are included in Table 1.
- AKRF anticipates to complete DNAPL gauging and removal in May 2020 using the same methods as
  described above while long term trends and alternate recovery methods are evaluated.
- No soil or stone was imported to the Site during the month of April.

The following work is planned for May:

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- Grading activities with NYSDEC-approved Category 1 soil, ¾-inch gravel, and/or trap rock screenings;
- SSDS installation (finalizing vertical riser location and chase);
- NAPL recovery well weekly/monthly monitoring and monthly NAPL recovery; 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

cc (electronic copy only): Kevin Carpenter – NYSDEC

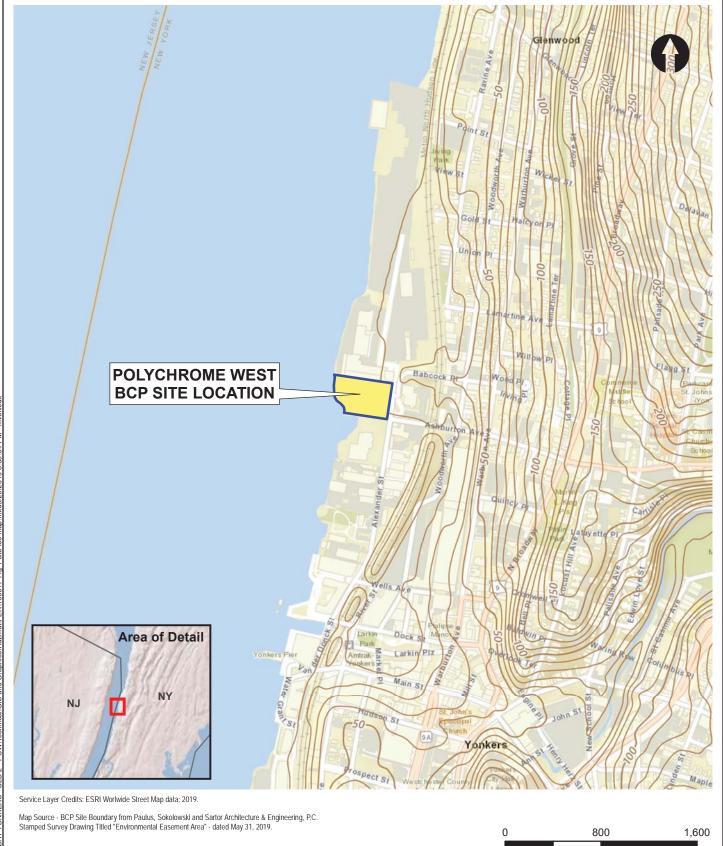
Scott Deyette – NYSDEC Sarita Wagh – NYSDOH Glen Moran – AVB

Christopher Reynolds – AVB

Jon Vogel – AVB

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Barry White – AVB
Scott Caporizzo – AKRF
Marc Godick – AKRF
Steve Grens – AKRF
Rebecca Kinal – AKRF









## Polychrome West NYSDEC Site (BCP #C360099)

Yonkers, New York

SITE LOCATION MAP

DATE

12/19/2019

PROJECT NO.

180017

FIGURE 1



PROJECT SITE BOUNDARY

ALPHANUMERIC GRID



DATE

PROJECT NO.

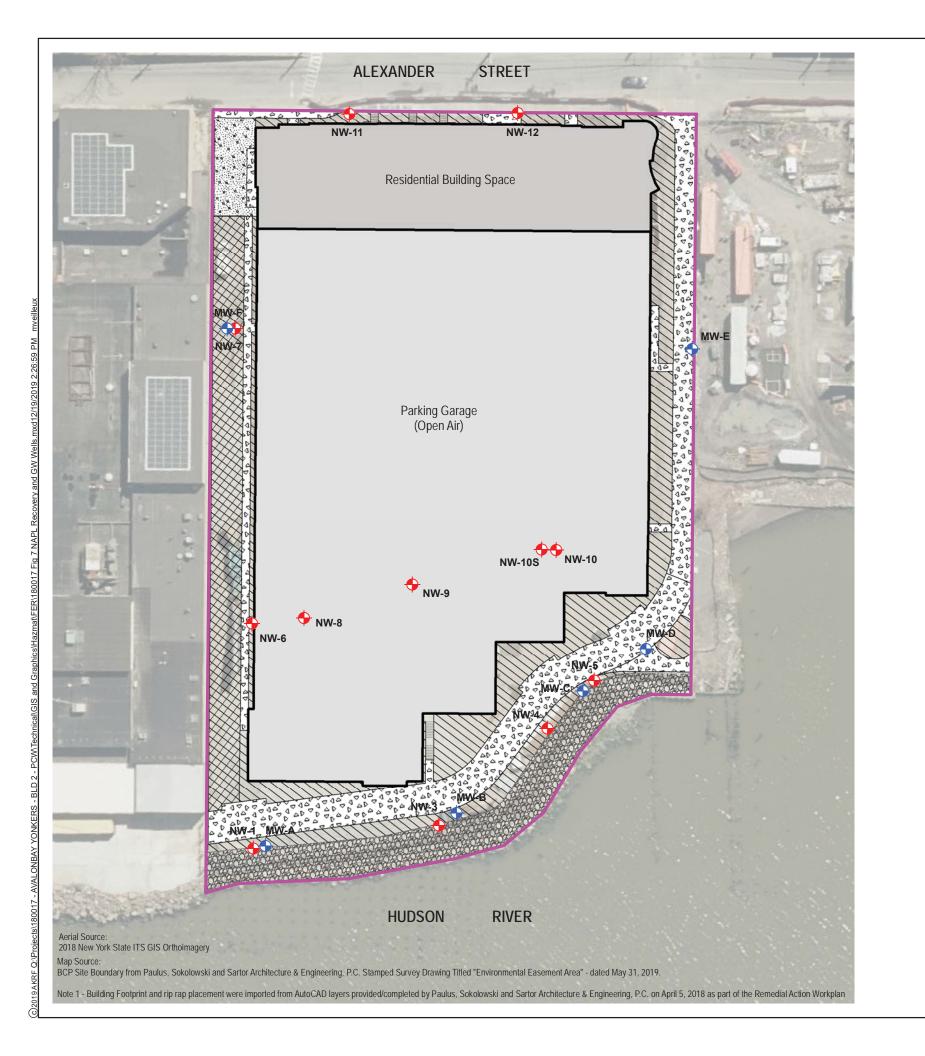
SITE PLAN WITH REFERENCE GRID

40566 FIGURE

2

**LEGEND** 

SCALE IN FEET





### **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)

NAPL RECOVERY & GROUNDWATER MONITORING WELL LOCATION PLAN Polychrome West
NYSDEC Site (BCP #C360099)
Yonkers, New York

12/19/2019

PROJECT NO. 180017

FIGURE 3

120 SCALE IN FEET

# Table 1 Polychrome West Yonkers, NY Well Gauging Measurements

Well ID	Well Gauging Measurements											
-	Date:	Time:	Depth to LNAPL (Ft.)	Depth to Water (Ft.)	Depth to DNAPL (Ft.)	Total Depth (Ft.)	LNAPL Thickness (Ft.)	DNAPL Thickness (Ft.)	Comments			
	1/9/2020 2/19/2020	12:09 10:00	ND ND	8.35 7.38	ND ND	13.10 13.11	NA NA	NA NA				
MW-A	3/25/2020	8:50	ND	7.39	ND	14.22	NA NA	NA NA				
	4/21/2020	8:22 13:34	ND ND	6.52	ND ND	13.18 14.73	NA NA	NA NA				
MW-B	1/9/2020 2/19/2020	10:00	ND	11.39 10.37	ND	14.73	NA NA	NA NA				
	3/25/2020	8:40	ND	10.52	ND	14.73	NA	NA				
	4/21/20 1/9/2020	8:30 12:08	ND ND	9.82 12.38	ND ND	14.71 18.52	NA NA	NA NA				
MW-C	2/19/2020	10:00	ND	12.02	ND	17.96	NA	NA				
	3/25/2020 4/21/2020	8:30 8:37	ND ND	11.74 10.83	ND ND	18.02 17.75	NA NA	NA NA				
	1/9/2020	16:06	ND	11.16	ND	17.83	NA	NA				
MW-D	2/19/2020 3/25/2020	10:00 8:25	ND ND	10.41 10.65	ND ND	17.89 18.11	NA NA	NA NA				
	4/21/2020	8:41	ND	10.37	ND	17.90	NA	NA				
-	1/9/2020 2/19/2020	16:03 10:00	ND ND	12.22 7.84	ND ND	15.39 12.59	NA NA	NA NA	Well cut down to pavement level			
MW-E	3/25/2020	8:20	ND	8.63	ND	12.58	NA	NA	vveii cut down to pavement level			
	4/21/2020 1/9/2020	8:15 15:55	ND ND	7.77 12.09	ND ND	12.60 20.04	NA NA	NA NA				
MW-F	2/19/2020	10:00	ND	12.07	ND	20.09	NA	NA				
	3/25/2020 4/21/2020	8:55 8:10	ND ND	9.53	ND ND	17.79	NA NA	NA NA				
	1/9/2020	12:47	ND	9.38 8.4	ND	17.79 20.55	NA NA	NA NA				
NW-1	2/19/2020 3/25/2020	11:30 9:45	ND ND	7.75 7.02	ND ND	20.39	NA NA	NA NA				
	4/21/2020	9:07	ND	6.23	ND	20.40	NA NA	NA NA				
	1/9/2020	12:52	ND	10.84	ND	35.31	NA NA	NA NA				
NW-3	2/19/2020 3/25/2020	11:30 9:50	ND ND	10.21 9.04	ND ND	35.95 35.33	NA NA	NA NA				
	4/21/2020	9:10 13:44	ND ND	8.32	ND	35.48	NA NA	NA NA				
NNA/ A	1/9/2020 2/19/2020	13:44	ND ND	11.82 11.08	ND ND	45.89 46.26	NA NA	NA NA				
NW-4	3/25/2020	9:55	ND	11.10	ND	46.48	NA	NA				
+	4/21/2020 1/9/2020	10:00 <b>10:00</b>	ND <b>ND</b>	10.64 <b>12.04</b>	ND <b>32.86</b>	45.71 <b>39.97</b>	NA NA	NA 7.11	Pre-pumping measurement. ~ 7 gallons removed			
	1/9/2020	13:36	ND	12.84	ND	38.45	NA NA	NA NA	Post-pumping measurement.			
ŀ	1/10/2020 1/10/2020	10:30 12:53	ND ND	11.29 12.53	ND ND	38.39 40.38	NA NA	NA NA				
	2/19/2020	13:00	ND	12.33	33.39	40.38	NA	6.99	Pre-pumping measurement			
NW-5	2/21/2020 3/25/2020	13:05 12:00	ND ND	12.33 11.75	ND 33.05	40.38	NA NA	7.33	Post-pumping measurement ~7.5 gallons removed  Pre-pumping measurement			
ļ	3/26/2020	9:00	ND	11.75	37.6	37.80	NA	NA	Post-pumping measurement ~7.5 gallons removed			
ŀ	4/21/2020 4/22/2020	11:20 14:30	ND ND	10.52 NA	33.15 36.50	40.38 39.94	NA NA	7.23 3.44	Pre-pumping measurement ~8 gallons removed			
ļ	4/30/2020	10:30	ND	NA	33.00	39.94	NA	6.94				
ŀ	1/9/2020 1/9/2020	10:05 10:41	ND ND	10.82 10.83	32.21 ND	38.87 38.89	NA NA	6.66 NA	Pre-pumping measurement. ~2 gallons removed  Post-pumping measurement.			
ŀ	1/10/2020	12:50	ND	10.26	ND	39.23	NA	NA	Post-pumping measurement.			
[	1/10/2020 <b>2/19/2020</b>	15:00 <b>13:00</b>	ND <b>ND</b>	10.46 <b>10.42</b>	ND 32.24	39.55 <b>39.55</b>	NA <b>NA</b>	NA 7.31	Dra numning massurament			
NW-6	2/19/2020	13:00	ND	10.42	ND	39.55	NA NA	NA	Pre-pumping measurement ~7.5 Gal. removed			
[	3/25/2020 3/26/2020	11:30 10:00	ND ND	8.88 8.88	31.18 ND	38.53 38.53	NA NA	7.35 NA	Well cut down prior to 3/25/20. Pre-pumping measurement.			
ŀ	4/21/2020	11:02	ND	8.45	31.60	38.53	NA NA	6.93	Post-pumping measurement ~7.5 gallons removed  Pre-pumping measurement			
[	4/22/2020	11:15	ND	9.15	ND	35.69	NA NA	NA 4.54	Post-pumping measurement ~8 Gal. removed			
+	4/30/2020 1/9/2020	10:30 14:50	ND ND	NA 9.59	34.02 ND	38.53 22.08	NA NA	4.51 NA				
NW-7	2/19/2020 3/25/2020	11:30 9:40	ND ND	9.55 9.37	ND ND	22.99 23.19	NA NA	NA NA	W-II			
ŀ	4/21/2020	9:00	ND	9.19	ND	23.19	NA NA	NA NA	Well cut down prior to 3/25/20.			
	1/9/2020	14:36	ND <b>ND</b>	11.41	33.81	36.20	NA <b>NA</b>	2.39	Due normalism management of finally and an arrangement			
ŀ	1/10/2020 1/10/2020	12:50 14:10	ND	10.43 10.61	35.70 ND	36.20 36.25	NA NA	0.50 NA	Pre-pumping measurement. ~1.5 gallons removed  Post-pumping measurement.			
ļ	1/10/2020	15:35	ND	10.9	ND	36.34	NA	NA				
NW-8	2/19/2020 2/19/2020	14:30 16:30	ND ND	10.93 10.86	31.64 ND	36.34 36.34	NA NA	4.70 NA	Pre-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 4/21/2020	13:30 14:05	ND ND	9.81 9.87	ND 32.59	36.30 32.64	NA NA	NA 4.05	Post-pumping measurement ~4 gallons removed  Pre-pumping measurement			
ľ	4/21/2020	14:55	ND	NA	ND	36.64	NA	NA	Post-pumping measurement ~3 gallons removed			
——[	4/30/2020 1/9/2020	10:30 14:40	ND ND	NA 11.6	34.20 ND	36.64 33.78	NA NA	2.44 NA				
NW-9	2/19/2020	11:30	ND	10.77	ND	34.17	ND	ND				
	3/25/2020 4/21/2020	10:00 10:10	ND ND	10:45 10.52	ND ND	33.73 33.80	ND ND	ND ND				
	1/9/2020	15:02	ND	11.67	28.12	33.58	NA	5.46				
	1/10/2020 1/10/2020	11:00 11:25	ND ND	10.64 10.64	27.80 ND	33.90 33.80	NA NA	6.10 NA	Pre-pumping measurement. ~6 gallons removed.  Post-pumping measurement.			
ł	1/10/2020	15:30	ND	10.86	ND	33.80	NA	NA				
NW-10	2/19/2020 2/19/2020	13:30 15:00	ND ND	11.00 11.14	27.39 ND	33.80 33.80	NA NA	6.41 NA	Pre-pumping measurement 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			
ļ	3/25/2020	13:45	ND	10.00	ND	33.91	NA NA	NA 6.01	Post-pumping measurement ~5 gallons removed			
	4/21/2020 4/21/2020	12:38 13:50	ND ND	9.86 NA	27.90 ND	33.91 33.78	NA NA	6.01 NA	Pre-pumping measurement ~4 gallons removed			
	4/30/2020	10:30	ND	NA	27.80	33.78	NA	5.98				
NW-10S	1/9/2020 2/19/2020	15:00 11:30	ND ND	11.15 10.6	ND ND	18.11 17.99	NA NA	NA NA				
	3/25/2020	9:35	ND	10.59	ND	18.03	NA	NA				
	4/21/20 <b>1/9/2020</b>	9:15 <b>9:07</b>	ND <b>ND</b>	10.25 <b>6.06</b>	ND <b>17.51</b>	18.06 <b>24.37</b>	NA NA	NA 6.86	Pre-pumping measurement. ~ 3 gallons removed			
ļ	1/9/2020	9:36	ND	9.03	ND	24.81	NA	NA	Post-pumping measurement.			
	1/10/2020 1/10/2020	9:50 14:50	ND ND	6.07 6.04	ND ND	24.38 24.39	NA NA	NA NA				
}	2/19/2020	13:00	ND	5.96	22.31	24.39	NA	2.08	Pre-pumping measurement			
NW-11	<b>2/21/2020</b>	<b>9:50</b>	ND ND	<b>5.96</b>	ND ND	<b>24.39</b>	NA NA	NA NA	Post-pumping measurement ~3 gallons removed			
	3/25/2020 3/26/2020	11:05 10:05	ND ND	5.98 5.98	ND 24.2	24.52 24.6	NA NA	NA 0.4	Pumping not completed (less than 0.5 feet of DNAPL)			
<u></u>	4/21/2020	10:16	ND	5.80	23.48	24.6	NA	1.12	Pre-pumping measurement			
		10:15	ND	8.53	ND	26.68	NA	NA	Post-pumping measurement ~4 gallons removed			
	<b>4/22/2020</b> 4/30/2020		ND	NΔ	ND	26 68	I NΔ	INΔ				
	4/30/2020 1/9/2020	10:30 12:01	ND ND	NA 6.98	ND ND	26.68 24.21	NA NA	NA NA				
NW-12	4/30/2020	10:30							Well cut down prior to 3/25/20.			

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

				Disposal Info											
Recovery														Off-Site	
Event												Monthly		Disposal	Disposal
	NW-1	NW-3	NW-4	NW-5	NW-6	NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	Total	Date Generated	Date	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	Pending	Pending
Apr-20	NA	NA	NA	8	8	NA	3	NA	4	4	NA	27	4/21 and 4/22/20	Pending	Pending
Notes:	es: DNAPL - Dense Non-Aqueous Phase Liquid											97.5	gallons		

NA - Not Applicable