Atlantic Richfield Company

Paul G. Johnson

Liability Manager

Remediation Management 150 W Warrenville Road Naperville, IL 60563 Phone: (331) 236-1415 Mobile: (630) 731-4463 E-Mail: paul.johnson4@bp.com

November 3, 2022

Jessica LaClair
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7016

RE: Monthly Progress Report, October 2022 Former Anaconda Plant (a.k.a. Harbor at Hastings Site) Site No. 3-60-022 Hastings-On-Hudson, New York

Dear Ms. LaClair:

Enclosed is the October 2022 Monthly Progress Report for the Former Anaconda Plant (a.k.a. Harbor at Hastings Site), New York State Department of Environmental Conservation (NYSDEC) Site No. 3-60-022, Hastings-on-Hudson, New York. This progress report has been prepared in accordance with Section XI of the AMENDED ORDER ON CONSENT and ADMINISTRATIVE SETTLEMENT between Atlantic Richfield Company and NYSDEC, dated November 6, 2013. The time period covered is October 1, 2022, through October 31, 2022.

If you have any questions or comments on this submittal, please feel free to contact me at 630-731-4463.

Sincerely,

Paul G. Johnson Liability Manager

PMM. JL

Enclosure



cc: Village Manager Mary Beth Murphy, Hastings-On-Hudson

Mark Chertok, Hastings-On-Hudson Karl Coplan, Pace/Riverkeeper

File

ecc: David Harrington, Director, Bureau D, NYSDEC DER

David Tromp, Section Chief, Bureau D, Section A, NYSDEC DER

Charlotte Bethoney, New York State Department of Health Jacquelyn Nealon, New York State Department of Health Phoebe Gittlelson, NYSDEC, Office of General Counsel

Mayor Nicola Armacost, Hastings-On-Hudson Trustee Morgan Fleisig, Hastings-On-Hudson

Village Manager Mary Beth Murphy, Hastings-On-Hudson

Nat Federici, P.E., Westchester County Department of Environmental Facilities

Rachel Noe, Westchester County

Jim Lucari, BP

Michael Daneker, Arnold & Porter

Martha Gopal, Sovereign Consulting Inc.

FORMER ANACONDA WIRE AND CABLE PLANT SITE (a.k.a. HARBOR AT HASTINGS SITE) OU1 NYSDEC SITE 360022 MONTHLY PROGRESS REPORT 209

PREPARED BY: Atlantic Richfield Company

Paul Johnson

REPORTING PERIOD: October 1, 2022 through October 31, 2022

1. PROGRESS MADE THIS REPORTING PERIOD:

- DNAPL gauging and recovery was performed on October 3rd, 2022. HARW-4 was gauged and pumped as required by the August 2011 Design Basis Memorandum.
- LNAPL gauging and recovery was performed on October 4th, 2022 in accordance with the IRM Work Plan (Fluor Daniel GTI, December 1997), Fluor Daniel GTI correspondence to the NYSDEC dated May 18, 1998 and Atlantic Richfield correspondence with the NYSDEC on September 2, 2010.
- Progress continued on these on-going design-related activities:
 - Development of shoreline concepts
 - Wetland design, including wave barrier
 - o Old Marina / Kinnally Cove stability evaluation for dredging
 - o OU-1 and OU-2 material handling evaluation.
 - o Design team has engaged West Chester County Department of Environmental Facilities regarding underground utilities.
 - SPDES Permit Equivalent Application
 - Community Air Monitoring Plan
 - o Community Environmental Response Plan
 - Other design elements
 - Biological Assessment / Not Likely to Adversely Affect Documentation and Essential Fish Habitat Reports (NMFS)
 - o Nationwide Permit 38 Pre-Construction Notification
 - Joint Permit Application
 - TSCA Risk-Based Disposal Action Application from USEPA; NYSDEC and USEPA TSCA met March 30th, 2022; USEPA TSCA requested revisions in email dated June 27th, 2022. Follow up call with NYSDEC and USEPA TSCA held July 11th, 2022; revisions to application in progress and scheduling future calls to review and respond to revisions.

2. UNANTICIPATED PROBLEM AREAS AND RECOMMENDED SOLUTIONS

• None this reporting period.

3. PROBLEMS RESOLVED

• None this reporting period.

4. DELIVERABLES SUBMITTED / RECEIVED

• October 4th, 2022, Atlantic Richfield to NYSDEC: *Hastings September 2022 Monthly Progress Report*.

5. UPCOMING EVENTS / ACTIVITIES PLANNED

- Scheduling of subsequent gauging and recovery events will be dependent on the developing COVID-19 situation and AR will continue to communicate with NYSDEC regarding schedule. The tentative schedule is outlined below.
- The next three DNAPL gauging and recovery events are tentatively scheduled to occur the weeks of November 7th, 2022, December 5th, 2022, and January 2nd, 2023.
- Continue the Water Tower LNAPL IRM activities, as allowable, in accordance with the IRM Work Plan (Fluor Daniel GTI, December 1997), Fluor Daniel GTI correspondence to the NYSDEC dated May 18, 1998, and Atlantic Richfield correspondence with the NYSDEC on September 2, 2010. The next LNAPL IRM event is tentatively scheduled to occur the week of February 6th, 2023, in accordance with the schedule modification request, from monthly to quarterly, sent by Atlantic Richfield to NYSDEC on June 4, 2012, and the approval letter received from NYSDEC dated April 2, 2013.

6. KEY STAFFING

- Sovereign Consulting Inc.
- Parsons Environment and Infrastructure Group, Inc. (OM&M and Security)

7. PERCENTAGE COMPLETE

- DNAPL gauging and recovery ongoing
- LNAPL IRM ongoing

8. DATA

• Final data not generated during this reporting period.

9. CITIZEN PARTICIPATION ACTIVITIES

None this reporting period.

LIST OF ACRONYMS

Acronym	Description

NYSDEC New York State Department of Environmental

Conservation

LNAPL Light Non-Aqueous Phase Liquid

DNAPL Dense Non-Aqueous Phase Liquid

OU Operable Unit

IRM Interim Remedial Measure

O&M Operations and Maintenance

LIST OF REFERENCES

FLUOR Daniel GTI, 1997. <u>Draft Interim Remedial Measure Work Plan – Separate Phase Liquid Recovery.</u> December.

TABLE I
OCTOBER DNAPL PUMPING SUMMARY (WEEK OF 10/03/2022)
ATLANTIC RICHFIELD
1 RIVER STREET
HASTINGS-ON-HUDSON, NEW YORK

Well ID	Date Gauged/ Pumped	Installation Angle (deg)	Pre-Pumping Uncorrected Apparent Height (inches)	Pre-Pumping Corrected Apparent Height (inches)	Post-Pumping Uncorrected Apparent Height (inches)	Post-Pumping Corrected Apparent Height (inches)	Total Fluids Removed (gallons) ⁴	Total DNAPL Removed (gallons) ⁶	Post-Purging Distance of DNAPL Surface Below MS/Fill Interface (ft) ⁵
HARW-1	10/3/2022 ¹	0	0	0	NA**	NA**	NA**	NA**	NA**
HARW-2	10/3/2022 ²	0	3.0	3.0			NA**	NA**	4.5
nakw-z	NA** 3	0			NA**	NA**	NA**	NA.	4.5
HARW-3	10/3/2022 2	16.5	8.0	7.7			NA**	NA**	3.7
HANV-3	NA** 3	10.5			NA**	NA**	INA		5.7
HARW-4	10/3/2022 ²	24.5	24.0	21.8			84.0	4.8	3.9
TIANVV-4	10/3/2022 ³	24.5			2.0	1.8	84.0		
HARW-5	10/3/2022 ²	23.5	16.0	14.7			NA**	NA**	3.1
nakw-5	NA** 3	23.3			NA**	NA**	NA**	NA**	
	10/3/2022 ²	44.0	10.0	9.7				818 ##	3.8
HARW-6	NA** 3	14.0			NA**	NA**	NA**	NA**	
LIADIA/ 7	10/3/2022 ²	0	9.0	9.0			NA**	NA**	4.0
HARW-7	NA** 3	0			NA**	NA**	NA***	NA**	4.0
HARW-8	10/3/2022 2	0	21.0	21.0			NA**	NA**	3.0
TIAINW-0	NA** 3	U			NA**	NA**	INA	IVA	3.0
HAOW-12A	10/3/2022 ²	0	12.0	12.0			NA**	NA**	4.2
TIAUW-12A	NA** 3	U			NA**	NA**	IVA	INA	4.2

Total Gallons of DNAPL Removed:

4.8

Notes:

Apparent Height: refers to the distance between the DNAPL surface and the bottom of the well sump which includes all fluids (groundwater and DNAPL) in the matrix. NA: Not Applicable

¹DNAPL not present, pumping not completed in this well

²Pre-pumping gauge date

³Post-pumping gauge date.

⁴Total gallons of fluid (DNAPL and groundwater) removed from well based on measurement in container.

 $^{^{5}}$ Represents the distance of the post-purging DNAPL material interface from the top of the MS/Fill interface.

⁶Unless otherwise noted, this column refers to the total volume of DNAPL removed based calculation of volume based on well diameter and height of DNAPL in the well.

^{*}DNAPL is present but is under 6-inches and discontinuous.

^{**}Volume in the well is less than threshold required to perform DNAPL pumping procedures.

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
MW-12	Cumulative 10/9/2006 - 7/29/2010	-	-	-	5.0	-	-	•
		TOTAL VOLUME RE	COVERED TO DATE FI	ROM MW-12 (GALLONS)	5.0			
HAOW-12A	Cumulative 3/2/2009 - 12/7/2020	-	-	-	49.7	-	DMT ⁴	•
	1/4/2021	42.7	0.9	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pun	ping not completed due t	o adverse weather conditions		-	-
	3/1/2021	42.6	1.0	-	-	56	DMT ⁴	-
	4/5/2021	42.4	1.2	-	-	35	DMT ⁴	-
	5/3/2021	42.6	1.0	-	-	28	DMT ⁴	-
	6/7/2021	42.6	1.0	-	-	35	DMT ⁴	-
	7/5/2021			ping not completed due t	o adverse weather conditions		- ,	-
	8/16/2021	42.6	1.0	-	-	70	DMT ⁴	
	9/7/2021	42.9	0.7	-	-	22	DMT ⁴	
	10/11/2021	42.8	0.8	-	-	34	DMT ⁴	-
	11/1/2021	43.2	0.4	-	-	21	DMT ⁴	
	12/6/2021	43.1	0.5	-	-	35	DMT ⁴	-
	1/3/2022			oumping not completed du	e to COVID-19 restrictions		-	-
	2/7/2022	43.0	0.6	-	-	63	DMT ⁴	-
	3/7/2022	43.2	0.4	-	-	28	DMT ⁴	-
	4/4/2022	43.1	0.5	-	-	28	DMT ⁴	-
	5/2/2022	43.2	0.4	-	-	28	DMT ⁴	-
	6/7/2022	43.2	0.4	-	-	36	DMT ⁴	-
	7/4/2022				o adverse weather conditions		-	-
	8/1/2022	43.1	0.5	-	-	55	DMT ⁴	-
	9/6/2022	43.0	0.6	-	-	36	DMT ⁴	-
	10/3/2022	42.6	1.0	-	-	27	DMT ⁴	-
		TOTAL VOLUME RECO	VERED TO DATE FROM	HAOW-12A (GALLONS)	49.7			
HARW-1	Cumulative 9/29/2010 - 12/7/2020		-	_	0.0			-
TAKW-I	1/4/2021	No product detected	0.0	-	0.0	28	DMT ⁴	
	2/1/2021	No product detected		pping not completed due t	o adverse weather conditions	20	- DIWIT	<u> </u>
	3/1/2021	No product detected	0.0	-	-	56	DMT ⁴	-
	4/5/2021	No product detected	0.0	-	-	35	DMT ⁴	-
	5/3/2021	No product detected	0.0	-	-	28	DMT ⁴	-
-	6/7/2021							-
	0/1/2021	No product detected	0.0	-	-	35	DMT ⁴	<u> </u>
	7/5/2021		DNAPL pun		- o adverse weather conditions			
	7/5/2021 8/16/2021	No product detected	DNAPL pun 0.0	nping not completed due t	o adverse weather conditions	70	- DMT ⁴	- -
	7/5/2021 8/16/2021 9/7/2021	No product detected No product detected	DNAPL pun 0.0 0.0	nping not completed due t - -	o adverse weather conditions	70 22	- DMT ⁴ DMT ⁴	- - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021	No product detected No product detected No product detected	DNAPL pun 0.0 0.0 0.0	nping not completed due t - - -	o adverse weather conditions	70 22 34	DMT ⁴ DMT ⁴ DMT ⁴	- - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021	No product detected No product detected No product detected No product detected	DNAPL pun 0.0 0.0 0.0 0.0	nping not completed due t - -	o adverse weather conditions	70 22 34 21	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021	No product detected No product detected No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0	ping not completed due t	o adverse weather conditions	70 22 34	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022	No product detected No product detected No product detected No product detected No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL p	ping not completed due t	o adverse weather conditions	70 22 34 21 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 11/3/2022 2/7/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun	ping not completed due t	o adverse weather conditions	70 22 34 21 35	- DMT ⁴ - DMT ⁴	- - - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0 0.0 0.0 0.0	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 11/3/2022 2/7/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun	ping not completed due t	o adverse weather conditions	70 22 34 21 35	- DMT ⁴ - DMT ⁴ DMT ⁴	- - - - - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/11/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28 28	- DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - - - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28 28 28 28	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DM	- - - - - - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28 28 28 28 36	- DMT 4 DMT	- - - - - - - - - - - - - - - - - - -
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022 9/6/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL ; 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28 28 28 36	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	
	7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022	No product detected	DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0 0.0 0.0 0.0 0.0 0.0 DNAPL pun 0.0	ping not completed due t	o adverse weather conditions	70 22 34 21 35 63 28 28 28 28 36	- DMT 4 DMT	- - - - - - - - - - - - - - - - - - -

SOVEREIGN CONSULTING INC.
Page 1 of 5

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-2	Cumulative 9/29/2010 - 12/7/2020	-		-	862.6	-	-	-
	1/4/2021	38.0	2.0	0.08	5	28	DMT ⁴	double diaphragm pump
	2/1/2021		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	3/1/2021	39.0	1.0	-	-	56	DMT ⁴	double diaphragm pump
	4/5/2021	38.3	1.8	-	-	35	DMT ⁴	-
	5/3/2021	37.3	2.7	0.08	6.7	28	DMT ⁴	double diaphragm pump
	6/7/2021	39.2	0.8	-	-	35	DMT ⁴	-
	7/5/2021			ping not completed due	to adverse weather conditions		-	<u>-</u>
	8/16/2021	38.3	1.8	-	-	70	DMT ⁴	<u>-</u>
	9/7/2021	37.5	2.5	0.33	5.7	22	DMT ⁴	double diaphragm pump
	10/11/2021	39.0	1.0	-	-	34	DMT ⁴	<u>-</u>
	11/1/2021	38.8	1.3	-	-	21	DMT ⁴	-
	12/6/2021	38.5	1.5	-	-	35	DMT ⁴	-
	1/3/2022				ue to COVID-19 restrictions			<u>-</u>
	2/8/2022	37.8	2.3	0.33	5	64	DMT ⁴	double diaphragm pump
	3/7/2022	39.0	1.0	-	-	27	DMT ⁴	-
	4/4/2022	38.3	1.8	-	-	28	DMT ⁴	-
	5/3/2022	38.0	2.0	0.08	5	29	DMT ⁴	double diaphragm pump
	6/7/2022	39.3	0.8	-	-	35	DMT ⁴	-
	7/4/2022			ping not completed due	to adverse weather conditions		-	-
	8/1/2022	38.3	1.8	-	-	55	DMT ⁴	-
	9/7/2022	37.8	2.2	0.08	5.4	37	DMT ⁴	double diaphragm pump
	10/3/2022	39.8	0.3	-	-	26	DMT ⁴	-
		TOTAL VOLUME REC	OVERED TO DATE FRO	OM HARW-2 (GALLONS)	895.4			
// A DIA/ O	0 1 1: 40/44/0040 40/7/0000				20.0			
HARW-3	Cumulative 10/14/2010 - 12/7/2020	-	-	-	28.6	-	- DAT4	-
	1/4/2021	38.5	0.5		-	28	DMT ⁴	-
	2/1/2021	00.5		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' 	to adverse weather conditions	50	- DMT ⁴	-
	3/1/2021	38.5	0.5	-	-	56		-
	4/5/2021	38.3	0.8	-	-	35	DMT ⁴	-
	5/3/2021	38.5	0.5	-	-	28	DMT ⁴	-
	6/7/2021	38.4	0.6	-	- 1	35	DMT ⁴	-
	7/5/2021	20.4			to adverse weather conditions	70	- DAT4	-
	8/16/2021	38.4	0.6	-	-	70	DMT ⁴	-
								-
	9/7/2021	38.5	0.5	-	-	22	DMT ⁴	
	10/11/2021	38.3	0.7	-	-	34	DMT ⁴	-
	10/11/2021 11/1/2021	38.3 38.4	0.7 0.6	-	-	34 21	DMT ⁴	-
	10/11/2021 11/1/2021 12/6/2021	38.3	0.7 0.6 0.8			34	DMT ⁴ DMT ⁴ DMT ⁴	-
	10/11/2021 11/1/2021 12/6/2021 1/3/2022	38.3 38.4 38.3	0.7 0.6 0.8 DNAPL p	- - - umping not completed di		34 21 35	DMT ⁴ DMT ⁴ DMT ⁴	- - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022	38.3 38.4 38.3 38.4	0.7 0.6 0.8 DNAPL p	- - - umping not completed di -		34 21 35 63	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	- - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022	38.3 38.4 38.3 38.4 38.4	0.7 0.6 0.8 DNAPL p 0.6 0.6	- - - - - - - - -	e to COVID-19 restrictions	34 21 35 63 28	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴	- - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022	38.3 38.4 38.3 38.4 38.4 38.5	0.7 0.6 0.8 DNAPL p 0.6 0.6 0.5	- - - umping not completed di - -	Le to COVID-19 restrictions	34 21 35 63 28 28	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022	38.3 38.4 38.3 38.4 38.4 38.5 38.8	0.7 0.6 0.8 DNAPL p 0.6 0.6 0.5	- - - - - - - - -	Le to COVID-19 restrictions	34 21 35 63 28 28 28	DMT ⁴ DMT ⁴ DMT ⁴	- - - - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022	38.3 38.4 38.3 38.4 38.4 38.5	0.7 0.6 0.8 DNAPL p 0.6 0.6 0.5 0.2 0.6	- - - umping not completed di - - -	Le to COVID-19 restrictions	34 21 35 63 28 28	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022	38.3 38.4 38.3 38.4 38.4 38.5 38.8 38.8	0.7 0.6 0.8 DNAPL F 0.6 0.6 0.5 0.2 0.6 DNAPL DUNGER	umping not completed di	Le to COVID-19 restrictions	34 21 35 63 28 28 28 28	DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ - DMT ⁴	
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022	38.3 38.4 38.3 38.4 38.4 38.5 38.8 38.8 38.4	0.7 0.6 0.8 DNAPL p 0.6 0.6 0.5 0.2 0.6 DNAPL pun	umping not completed di	Le to COVID-19 restrictions	34 21 35 63 28 28 28 28 36	DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	- - - - - - - -
	10/11/2021 11/1/2021 12/6/2021 13/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022 9/6/2022	38.3 38.4 38.3 38.4 38.5 38.8 38.4 38.5 38.8 38.4	0.7 0.6 0.8 DNAPL p 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5	umping not completed de	Le to COVID-19 restrictions	34 21 35 63 28 28 28 36 55	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	- - - - - - - - -
	10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022	38.3 38.4 38.3 38.4 38.4 38.5 38.8 38.8 38.4	0.7 0.6 0.8 DNAPL p 0.6 0.6 0.5 0.2 0.6 DNAPL pun	umping not completed di	Le to COVID-19 restrictions	34 21 35 63 28 28 28 28 36	DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	- - - - - - - -
	10/11/2021 11/1/2021 12/6/2021 13/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022 9/6/2022	38.3 38.4 38.3 38.4 38.5 38.8 38.4 38.4 38.5 38.3	0.7 0.6 0.8 DNAPL p 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5	umping not completed di	Le to COVID-19 restrictions	34 21 35 63 28 28 28 36 55	DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	- - - - - - - - -

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	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-4	Cumulative 10/14/2010 - 12/7/2020	- 1			219.0	-	-	-
	1/4/2021	38.1	0.9	-	-	28	DMT ⁴	-
	2/1/2021			nping not completed due	o adverse weather conditions			
	3/1/2021	37.8	1.2	-	-	56	DMT ⁴	-
	4/5/2021	38.0	1.0	-	-	35	DMT ⁴	-
	5/3/2021	37.8	1.2	-	-	28	DMT ⁴	-
	6/7/2021	38.0	1.0	-	_	35	DMT ⁴	-
	7/5/2021		DNAPL pun	nping not completed due	o adverse weather conditions		-	-
	8/16/2021	37.8	1.2	-	-	70	DMT ⁴	-
	9/7/2021	38.0	1.0	-	-	22	DMT ⁴	-
	10/11/2021	37.8	1.2	-	-	34	DMT ⁴	-
	11/1/2021	37.6	1.4	-	-	21	DMT ⁴	-
	12/6/2021	37.4	1.6	-	_	35	DMT ⁴	-
	1/3/2022	****		oumping not completed du	ie to COVID-19 restrictions		-	-
	2/7/2022	38.2	0.8		-	63	DMT ⁴	-
	3/7/2022	37.6	1.4	-	-	28	DMT ⁴	-
	4/4/2022	37.5	1.5	-	_	28	DMT ⁴	-
	5/2/2022	37.8	1.3	_	_	28	DMT ⁴	_
	6/7/2022	37.3	1.8	_	_	36	DMT ⁴	_
	7/4/2022	07.0		nping not completed due	o adverse weather conditions		-	-
	8/1/2022	37.4	1.6	-	-	55	DMT ⁴	-
	9/6/2022	37.2	1.8	_	_	36	DMT ⁴	_
	10/3/2022	37.0	2.0	0.17	4.8	27	DMT ⁴	double diaphragm pump
IARW-5	Cumulative 7/18/2011 - 12/7/2020	-	-	-	1191.5	-	-	-
	1/4/2021	38.3	2.0	0.08	5.0	28	DMT⁴	double diaphragm pump
		30.3	2.0		5.0			uouble diapiliagili pullip
	2/1/2021	30.3			o adverse weather conditions		-	- double diaphragin pump
		36.7				56	- DMT ⁴	double diaphragm pump
	2/1/2021		DNAPL pun	ping not completed due	o adverse weather conditions		-	-
	2/1/2021 3/1/2021	36.7	DNAPL pun 3.6	nping not completed due 0.31 0.04	to adverse weather conditions 9.4	56	- DMT ⁴	- double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021	36.7 37.1	3.6 3.2	pping not completed due 0.31 0.04	o adverse weather conditions 9.4 8.2	56 35	- DMT ⁴ DMT ⁴	- double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021 5/3/2021	36.7 37.1 38.7	DNAPL pun 3.6 3.2 1.6 4.4	ping not completed due 0.31 0.04 - 0.00	o adverse weather conditions 9.4 8.2 -	56 35 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021	36.7 37.1 38.7	DNAPL pun 3.6 3.2 1.6 4.4	ping not completed due 0.31 0.04 - 0.00	o adverse weather conditions 9.4 8.2 - 11.5	56 35 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021	36.7 37.1 38.7 35.9	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun	ping not completed due 0.31 0.04 - 0.00 ping not completed due	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions	56 35 28 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump -
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021	36.7 37.1 38.7 35.9	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00	o adverse weather conditions 9.4 8.2	56 35 28 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump -
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021	36.7 37.1 38.7 35.9 35.8 38.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 -	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions	56 35 28 35 70	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021	36.7 37.1 38.7 35.9 35.8 38.8 36.5	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08	0 adverse weather conditions 9.4 8.2	56 35 28 35 70 22 34	- DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed due	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions	56 35 28 35 70 22 34 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DM	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022 2/8/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08	0 adverse weather conditions 9.4 8.2	56 35 28 35 70 22 34 21 35	- DMT 4 DMT 4 DMT 4 DMT 4 - DMT 4 - DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 10/11/2021 11/1/2021 11/1/2021 12/6/2021 11/3/2022 2/8/2022 3/7/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 36.5 38.3 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed du 0.17	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions - 7.4	56 35 28 35 70 22 34 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 36.6 36.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed du 0.17	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4	56 35 28 35 70 22 34 21 35 64 27 28	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 37.3 37.3 38.6 36.8 38.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL g DNAPL g 3.0 1.8 3.5 1.6	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed due 0.17 - 0.08 - 0.17 - 0.08	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 - 8.9	56 35 28 35 70 22 34 21 35 64 27 28	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/1/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 36.6 36.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL pun 3.0 1.8 3.5 1.6 3.6	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 umping not completed du 0.17 - 0.17 - 0.17 - 0.17 - 0.17	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 - 8.9	56 35 28 35 70 22 34 21 35 64 27 28	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 7/4/2022 7/4/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p 3.0 1.8 3.5 1.6 3.6 DNAPL pun	ping not completed due 0.31 0.04 0.00 - 0.00 - 0.17 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.09 - 0.17 - 0.17 - 0.17 - 0.17 - 0.17 - 0.17 - 0.17 - 0.17 - 0.17 - 0.19 - 0.19 - 0	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 - 8.9 o adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 36	- DMT 4 DMT	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL pun 3.0 1.8 3.5 1.6 3.6 DNAPL pun	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed due 0.17 0.08 - 0.17 ping not completed due	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 let to COVID-19 restrictions 7.4 - 8.9 - 8.9 o adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 36	- DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 - DMT 4 - DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 8/16/2021 10/11/2021 11/1/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022 9/7/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL g 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed du 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 - 8.9 o adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 36	- DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 - DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9 DMT 9 DMT 9 DMT 9 DMT 1	double diaphragm pump double diaphragm pump
	2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 8/1/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL pun 3.0 1.8 3.5 1.6 3.6 DNAPL pun	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08 pumping not completed due 0.17 0.08 - 0.17 ping not completed due	o adverse weather conditions 9.4 8.2 - 11.5 o adverse weather conditions 11.7 - 9.6 5.2 5.0 let to COVID-19 restrictions 7.4 - 8.9 - 8.9 o adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 36	- DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 - DMT 4 - DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump

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	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-6	Cumulative 7/19/2011 - 12/7/2020	-			0.0	-	-	-
	1/4/2021	40.1	0.7	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pun	nping not completed due	to adverse weather conditions			-
	3/1/2021	40.1	0.7	-	-	56	DMT ⁴	-
	4/5/2021	40.1	0.8	-	-	35	DMT ⁴	-
	5/3/2021	40.6	0.2	-	-	28	DMT ⁴	-
	6/7/2021	40.6	0.3	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pun	nping not completed due	to adverse weather conditions			-
	8/16/2021	40.3	0.5	-	-	70	DMT ⁴	-
	9/7/2021	40.5	0.3	-	-	22	DMT ⁴	-
	10/11/2021	40.3	0.5	-	-	34	DMT ⁴	-
	11/1/2021	40.2	0.6		-	21	DMT ⁴	-
	12/6/2021	40.3	0.5	_	_	35	DMT ⁴	-
	1/3/2022				ue to COVID-19 restrictions		-	-
	2/7/2022	40.2	0.6	-	-	63	DMT ⁴	-
	3/7/2022	40.2	0.6		-	28	DMT ⁴	-
	4/4/2022	40.1	0.7	_	_	28	DMT ⁴	-
	5/2/2022	40.1	0.7	_	_	28	DMT ⁴	-
	6/7/2022	40.6	0.3	_	_	36	DMT ⁴	-
	7/4/2022	10.0		nping not completed due	to adverse weather conditions		-	-
	8/1/2022	40.6	0.3	-	-	55	DMT ⁴	-
	9/6/2022	40.1	0.7		_	36	DMT ⁴	-
	10/3/2022	40.0	0.8	_	_	27	DMT ⁴	-
		TOTAL VOLUME REC	OVERED TO DATE FRO	OM HARW-6 (GALLONS)	0.0			
HARW-7	Cumulative 7/18/2011 - 12/7/2020	-	•	-	582.0	-		-
	1/4/2021	40.8	1.2	<u> </u>		28	DMT ⁴	-
	2/1/2021				to adverse weather conditions		- D14T4	-
	3/1/2021	40.0	2.0	0.0	5.2	56	DMT ⁴	double diaphragm pump
	4/5/2021	41.3	0.8	-	-	35	DMT ⁴	-
	5/3/2021	41.2	0.8	-	-	28	DMT ⁴	-
	6/7/2021	40.8	1.3	<u> </u>		35	DMT ⁴	-
	7/5/2021				to adverse weather conditions		-	-
	8/16/2021	39.5	2.5	0.2	6.1	70	DMT ⁴	double diaphragm pump
	9/7/2021	41.8	0.3	-	-	22	DMT ⁴	-
	10/11/2021	41.5	0.5	-	-	34	DMT ⁴	-
	11/1/2021	41.1	0.9	-	-	21	DMT ⁴	-
	12/6/2021	40.6	1.4	<u> </u>	-	35	DMT ⁴	-
	1/3/2022			oumping not completed di	ue to COVID-19 restrictions			-
	2/7/2022	40.2	1.8	-	-	63	DMT ⁴	-
	3/7/2022	39.6	2.4	0.1	6.1	28	DMT ⁴	double diaphragm pump
	4/4/2022	41.7	0.3	-	-	28	DMT ⁴	-
	5/2/2022	41.4	0.6	-	-	28	DMT ⁴	-
	6/7/2022	40.9	1.1	-	-	36	DMT ⁴	-
	7/4/2022	ļ .			to adverse weather conditions		-	-
	8/1/2022	40.0	2.0	0.0	5.2	55	DMT ⁴	double diaphragm pump
	9/6/2022	41.8	0.3	-	-	36	DMT ⁴	-
				1	-	27	DMT ⁴	-
	10/3/2022	41.3	0.8	-	 	21	DINIT	-

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	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-8	Cumulative 7/19/2011 - 12/7/2020	-	-		36.1	-	-	
	1/4/2021	41.8	1.2	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	3/1/2021	41.8	1.3	-	-	56	DMT ⁴	-
	4/5/2021	41.4	1.6	-	-	35	DMT ⁴	-
	5/3/2021	41.0	2.0	0.0	5.2	28	DMT ⁴	double diaphragm pump
	6/7/2021	42.8	0.2	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	8/16/2021	42.5	0.5	-	-	70	DMT ⁴	-
	9/7/2021	42.5	0.5	-	-	22	DMT ⁴	-
	10/11/2021	42.3	0.7	-	-	34	DMT ⁴	-
	11/1/2021	42.2	0.8	-	-	21	DMT ⁴	-
	12/6/2021	42.2	0.8	-	-	35	DMT ⁴	-
	1/3/2022		DNAPL p	-	-			
	2/7/2022	42.2	0.8	-	-	63	DMT ⁴	-
	3/7/2022	41.9	1.1	-	-	28	DMT ⁴	-
	4/4/2022	41.8	1.3	-	-	28	DMT ⁴	-
	5/2/2022	41.7	1.3		-	28	DMT ⁴	-
	6/7/2022	41.7	1.3		-	36	DMT ⁴	-
	7/4/2022		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	8/1/2022	41.5	1.5	-	-	55	DMT ⁴	-
	9/6/2022	41.4	1.6	-	-	36	DMT ⁴	-
	10/3/2022	41.3	1.8	-	-	27	DMT ⁴	-
		TOTAL VOLUME REC	COVERED TO DATE FRO	OM HARW-8 (GALLONS)	41.3			

TOTAL VOLUME RECOVERED TO DATE FROM ALL WELLS (GALLONS)

3145.3

HARW-3

Notes: MW-12 Depth to Top of Screen: 33 ft Depth to Bottom: 36 ft

HARW-1

Depth to Top of Screen: 24 ft

Depth to Bottom: 42 ft

HARW-5 Angle from Vertical: 23.5° Vertical Depth to Top of Screen: 27 ft Vertical Depth to Bottom: 40.3 ft

HAOW-12A

Depth to Top of Screen: 28.6 ft Depth to Bottom: 43.6 ft

HARW-2

Depth to Bottom: 40 ft

Depth to Top of Screen: 26 ft

HARW-6 Angle from Vertical: 14° Vertical Depth to Top of Screen: 26.7 ft

Vertical Depth to Bottom: 40.8 ft

HARW-4

Angle from Vertical: 16.5° Angle from Vertical: 24.5° Vertical Depth to Top of Screen: 25.4 ft Vertical Depth to Top of Screen: 28.7 ft

Vertical Depth to Bottom: 39 ft Vertical Depth to Bottom: 41 ft

HARW-8

Depth to Top of Screen: 28.5 ft Depth to Top of Screen: 27.5 ft Depth to Bottom: 42 ft Depth to Bottom: 43 ft

For historical reference to past DNAPL measurement events prior to January 2017, please refer to the January 2018 monthly report submitted to NYSDEC on 5 February 2018.

DMT = DNAPL Measurement Tool, consisting of a copper tubing handle, a spacer section to prevent the probe from contacting the sides of the well riser, and an all-thread rod probe to extend into the DNAPL.

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³ Volume of product recovered by downwell pump is estimated by approximating the volume discharged to the drum and additional product in tubing and on pump.

Volume of product recovered by bailer is estimated using the bailer volume and number of times bailed.

Volume of product recovered by double diaphragm and positive displacement piston pumps are estimated by approximating the volume discharged to the drum or by using the pre- and post-pumping apparent height of product and the well dimensions (8" diameter well).

⁴ All depth and thickness values for HARW-3, HARW-4 HARW-5 and HARW-6 are provided as vertical equivalents of the field measurements based on the angle of the installed well.