Atlantic Richfield Company

Paul G. Johnson

Liability Manager

Remediation Management 150 W Warrenville Road MC 600 1L Naperville, IL 60563 Phone: (331) 236-1415 Mobile: (630) 731-4463

Fax: (630) 420-3738 E-Mail: paul.johnson4@bp.com

July 6, 2021

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, June 2021 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 June 2021 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 June 1, 2021 through June 30, 2021.

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. JU

Enclosure



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

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

File

ecc: Jacquelyn Nealon, New York State Department of Health

Maureen Schuck, New York State Department of Health

Susan Edwards, New York State Department of Environmental Conservation

Andrew Guglielmi, 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

Michael Facelle, P.E. Westchester County

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 193

PREPARED BY: Atlantic Richfield Company

Paul Johnson

REPORTING PERIOD: June 1, 2021 through June 30, 2021

1. PROGRESS MADE THIS REPORTING PERIOD:

- DNAPL gauging and recovery was performed on June 8th, 2021; HARW-5 was gauged and pumped as required by the August 2011 Design Basis Memorandum.
- Progress continued on these on-going design-related activities:
 - o Design team submitted the Final *Basis of Design Report for Compensatory Wetland Construction* on June 23rd, 2021.
 - o Design team submitted the Final *Basis of Design Report for Old Marina and Kinnally Cove Dredging and Restoration* on June 23rd, 2021.
 - o Project team met virtually with Alexandra Ryan of the U.S. Army Corps of Engineers June 24th, 2021; provided project introduction and update.
 - o Received NYSDEC comments on the *Compliance Monitoring and Adaptive Management Plan* on May 21st, 2021; revisions completed, to be submitted when Compensatory Wetland BODR is approved.
 - Shoreline modeling scope of work summary provided to Village consultant June 3rd 2021; modeling in progress.
 - o SPDES Permit Equivalent Application
 - Water Quality Monitoring Plan
 - o Community Air Monitoring Plan
 - o Community Environmental Response Plan

2. UNANTICIPATED PROBLEM AREAS AND RECOMMENDED SOLUTIONS

• None this reporting period.

3. PROBLEMS RESOLVED

• None this reporting period.

4. DELIVERABLES SUBMITTED / RECEIVED

• June 4th, 2021, Atlantic Richfield to NYSDEC: *Hastings May 2021 Monthly Progress Report*.

5. <u>UPCOMING EVENTS / ACTIVITIES PLANNED</u>

- 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 August 16th, September 7th, and October 4th, 2021. As discussed with NYSDEC, a July event is not scheduled due to health concerns related to excessive heat.
- 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 upcoming LNAPL IRM events are tentatively scheduled to occur the week of August 16th, 2021 and the week of December 6th, 2021 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
JUNE DNAPL PUMPING SUMMARY (WEEK OF 6/7/2021)
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	6/7/2021 ¹	0	0	0	NA**	NA**	NA**	NA**	NA**
HARW-2	6/7/2021 ²	0	10.0	10.0			NA**	NA**	3.9
TIANVV-2	NA** 3	U			NA**	NA**	NA	INA	3.9
HARW-3	6/7/2021 2	16.5	7.0	6.7			NA**	NA**	3.8
TIARW-5	NA** 3	10.5			NA**	NA**	IVA	ING	3.8
HARW-4	6/7/2021 ²	24.5	12.0	10.9			NA**	NA**	3.2
TIZAKW 4	NA** 3	24.5			NA**	NA**		INA	3.2
HARW-5	6/7/2021 ²	23.5	53.0	48.6			126.0	11.5	4.3
TIARW-5	6/8/2021 ³	25.5			0.0	0.0	120.0	11.5	4.5
HARW-6	6/7/2021 ²	14.0	3.0	2.9			NA**	NA**	4.2
HAKW-0	NA** 3	14.0			NA**	NA**	NA.	NA.	4.3
HARW-7	6/7/2021 ²	0	15.0	15.0			NA**	NA**	2.5
HAKW-/	NA** 3	0			NA**	NA**	NA***	NA**	3.5
HARW-8	6/7/2021 ²	0	2.0	2.0			NA**	NA**	4.5
HAKW-0	NA** 3				NA**	NA**	NA.	INA	4.5
HAOW-12A	6/7/2021 ²	0	12.0	12.0			NA**	NA**	4.2
HAOW-IZA	NA** 3	U			NA**	NA**	IVA	INA	4.2

Total Gallons of DNAPL Removed:

11.5

Notes:

¹DNAPL not present, pumping not completed in this well

<u>Apparent Height:</u> 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

²Pre-pumping gauge date

³Post-pumping gauge date.

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

⁵Represents 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.

			Burdent America	Book at Assessment				
			Product Apparent Height -	Product Apparent Height -	Approximate Volume of	Days Elapsed Between	Measurement Tool	
	Date	Depth to Product (ft)	Pre-pumping (ft)	Post-pumping (ft)	Product Recovered (gallons) ³	Measurement Readings	Used	Recovery Procedure Used
MW-12	Cumulative 10/9/2006 - 7/29/2010	-	-	-	5.0	-	-	-
		TOTAL VOLUME REC	COVERED TO DATE FR	OM MW-12 (GALLONS)	5.0			
HAOW-12A	Cumulative 3/2/2009 - 12/10/2018				49.7		DMT ⁴	_
IIAON IZA	1/14/2019	42.9	0.7	-	-	35	DMT 4	-
	2/4/2019	42.3	1.3	-	-	21	DMT ⁴	-
	3/11/2019	42.4	1.2	-	-	35	DMT ⁴	-
	4/1/2019	42.6	1.0	-	-	21	DMT ⁴	-
	5/6/2019	42.5	1.1	-	-	35	DMT ⁴	-
	6/3/2019 8/5/2019	42.4	1.2 1.1	-	-	28	DMT ⁴	-
	9/9/2019	42.5 42.4	1.2	-	-	63 35	DMT ⁴	-
	10/7/2019	42.6	1.0	-	-	28	DMT 4	-
	11/4/2019	42.4	1.2	-	-	28	DMT ⁴	-
	12/2/2019			NAPL pumping not requir	ed to be completed	•	-	1
	1/13/2020	42.6	1.0	-	-	70	DMT ⁴	-
	2/3/2020	42.4	1.2	-	-	21	DMT ⁴	-
	3/2/2020	42.9	0.7	-	-	28	DMT ⁴	-
	4/6/2020				e to COVID-19 restrictions		-	=
	5/4/2020	1			e to COVID-19 restrictions		-	-
	6/1/2020 7/6/2020	42.8	DNAPL p 0.8	umping not completed du	e to COVID-19 restrictions	126	- DMT ⁴	-
	8/3/2020	42.6	1.0	-	-	28	DMT ⁴	-
	9/8/2020	42.6	1.0	-	_	36	DMT ⁴	
	10/5/2020	42.6	1.0	-	-	27	DMT ⁴	-
	11/2/2020	42.5	1.1	-	-	28	DMT⁴	-
	12/7/2020	42.7	0.9	-	-	35	DMT ⁴	-
	1/4/2021	42.7	0.9	-	-	28	DMT⁴	-
	2/1/2021			ping not completed due	o adverse weather conditions		-	1
	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	-
	TO	TAL VOLUME RECOVE	ERED TO DATE FROM F	HAOW-12A (GALLONS)	49.7			
HARW-1	Cumulative 9/29/2010 - 12/10/2018	-	-	_	0.0	•	-	-
7,5,0,0,0	1/14/2019	No product detected	0.0	-	-	35	DMT ⁴	-
	2/4/2019	No product detected	0.0	-	-	21	DMT ⁴	-
	3/11/2019	No product detected	0.0	-	-	35	DMT⁴	-
	4/1/2019	No product detected	0.0	-	-	21	DMT ⁴	-
	5/6/2019	No product detected	0.0	-	-	35	DMT ⁴	-
	6/3/2019 8/5/2019	No product detected No product detected	0.0	-	-	28 63	DMT ⁴	-
	9/9/2019	No product detected	0.0	-		35	DMT ⁴	
	10/7/2019	No product detected	0.0	-	-	28	DMT ⁴	-
	11/4/2019	No product detected	0.0	-	-	28	DMT ⁴	-
	12/2/2019			NAPL pumping not requir	ed to be completed		- A	-
	1/13/2020	No product detected	0.0	-	-	70	DMT ⁴	-
	2/3/2020 3/2/2020	No product detected No product detected	0.0	-	-	21 28	DMT ⁴	-
	4/6/2020	140 product detected		umping not completed du	e to COVID-19 restrictions	۷0	– DIVI I	-
	5/4/2020		DNAPL p	umping not completed du	e to COVID-19 restrictions		-	-
	6/1/2020			umping not completed du	e to COVID-19 restrictions		- ,	1
	7/6/2020	No product detected	0.0	-	-	126	DMT ⁴	-
	8/3/2020 9/8/2020	No product detected No product detected	0.0	-	-	28 36	DMT ⁴	-
	10/5/2020	No product detected	0.0	-	-	27	DMT ⁴	-
	11/2/2020	No product detected	0.0	-	-	28	DMT ⁴	-
	12/7/2020	No product detected	0.0			35	DMT ⁴	
	1/4/2021	No product detected	0.0	-	-	28	DMT ⁴	-
	2/1/2021	ļ		ping not completed due	o adverse weather conditions		-	1
	3/1/2021	No product detected	0.0	-	-	56	DMT ⁴	-
	4/5/2021 5/3/2021	No product detected No product detected	0.0	-	-	35 28	DMT ⁴	-
	6/7/2021	No product detected	0.0	-	-	35	DMT ⁴	-
					i			
			OVERED TO DATE FRO		0.0			

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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-2	Cumulative 9/29/2010 - 12/10/2018	-		-	812.3	-	-	-
	1/14/2019	38.8	1.3	-	-	35	DMT ⁴	-
	2/4/2019	38.0	2.0	0.08	5	21	DMT ⁴	double diaphragm pump
	3/11/2019	38.8	1.2	-	-	35	DMT ⁴	-
	4/1/2019	38.5	1.5	-	-	21	DMT ⁴	
	5/6/2019 6/3/2019	36.8	3.2 1.3	0.25	7.6	35 28	DMT ⁴	double diaphragm pump
	8/5/2019 8/5/2019	38.8 36.8	3.2	0.25	7.6	63	DMT ⁴	double disphraam nump
	9/9/2019	38.5	1.5	0.25	-	35	DMT ⁴	double diaphragm pump
	10/7/2019	37.8	2.3	0.08	5.7	28	DMT ⁴	double diaphragm pump
	11/4/2019	39.8	0.2			28	DMT ⁴	double diapriragin pump
	12/2/2019	39.0		NAPL pumping not requir		20	- DIVIT	
	1/13/2020	38.6	1.4			70	DMT ⁴	-
	2/3/2020	37.0	3.0	0.67	6.1	21	DMT ⁴	-
	3/2/2020	38.6	1.4			28	DMT ⁴	-
	4/6/2020				e to COVID-19 restrictions		-	-
	5/4/2020				e to COVID-19 restrictions		-	-
	6/1/2020				e to COVID-19 restrictions		1	-
	7/6/2020	35.2	4.8	0.08	12.4	126	DMT ⁴	double diaphragm pump
	8/3/2020	39.0	1.0			28	DMT ⁴	-
	9/8/2020	38.4	1.6			36	DMT ⁴	-
	10/5/2020	37.8	2.3	0.00	5.9	27	DMT ⁴	double diaphragm pump
	11/2/2020	39.5 39.1	0.5 0.9			28	DMT ⁴	-
	12/7/2020					35		-
	1/4/2021 2/1/2021	38.0	2.0	0.08	5 o adverse weather conditions	28	DMT ⁴	double diaphragm pump
	3/1/2021	39.0	1.0			56	DMT ⁴	double diaphragm pump
	4/5/2021	38.3	1.8			35	DMT ⁴	double diapriragin pump
	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	-
			OVERED TO DATE FROM		874.3		5	
		TOTAL VOLUME RECO	VERED TO DATE FROM	W HARW-2 (GALLONS)	874.3			
HARW-3	Cumulative 10/14/2010 - 12/10/2018	-		-	28.6	-	-	-
					-	0.5	51174	
	1/14/2019	38.7	0.3	-	-	35	DMT ⁴	-
	1/14/2019 2/4/2019	38.7 38.7	0.3		-	35 21	DMT ⁴	
	2/4/2019 2/4/2019 3/11/2019		0.3 0.3 0.4	-				- - -
	2/4/2019 3/11/2019	38.7	0.3 0.4	-	-	21 35	DMT ⁴	-
	2/4/2019	38.7 38.6	0.3	-	-	21	DMT ⁴	- -
	2/4/2019 3/11/2019 4/1/2019 5/6/2019	38.7 38.6 38.8	0.3 0.4 0.3	- - -	-	21 35 21	DMT ⁴ DMT ⁴	- - -
	2/4/2019 3/11/2019 4/1/2019	38.7 38.6 38.8 38.8	0.3 0.4 0.3 0.3	- - -	- - - -	21 35 21 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5	- - - -	- - - -	21 35 21 35 28 63	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019	38.7 38.6 38.8 38.8 38.6 38.5 38.3	0.3 0.4 0.3 0.3 0.4 0.5 0.7	- - - -	- - - -	21 35 21 35 28 63 35	DMT ⁴	· · · · · · · · · · · · · · · · · · ·
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019	38.7 38.6 38.8 38.8 38.6 38.5 38.3	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5	- - - - -		21 35 21 35 28 63 35 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019	38.7 38.6 38.8 38.8 38.6 38.5 38.3	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5	-		21 35 21 35 28 63 35	DMT ⁴	· · · · · · · · · · · · · · · · · · ·
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019	38.7 38.6 38.8 38.8 38.6 38.5 38.3	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5	-		21 35 21 35 28 63 35 28	DMT ⁴	-
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 12/2/2019	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.3 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5	-		21 35 21 35 28 63 35 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/3/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.3 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5			21 35 21 35 28 63 35 28 28 28	DMT ⁴	-
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2020 4/6/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7		ed to be completed	21 35 21 35 28 63 35 28 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2020 3/2/2020 4/6/2020 5/4/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 DNAPL p	NAPL pumping not requir	e to COVID-19 restrictions	21 35 21 35 28 63 35 28 28 28	DMT ⁴ -	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7		ed to be completed - to COVID-19 restrictions to to COVID-19 restrictions to COVID-19 restrictions	21 35 21 35 28 63 35 28 63 35 28 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5	NAPL pumping not requir	et to COVID-19 restrictions e to COVID-19 restrictions e to COVID-19 restrictions	21 35 21 35 28 63 35 28 28 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.3 38.5 38.3 38.5 38.3	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.6	NAPL pumping not requir	ed to be completed	21 35 21 35 28 63 35 28 28 28 21 28	DMT 4	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/3/2020 2/3/2020 3/2/2020 4/6/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.6 0.6		ed to be completed	21 35 21 35 28 63 35 28 63 35 28 28 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2020 4/6/2020 5/4/2020 6/11/2020 7/6/2020 8/3/2020 9/8/2020 10/5/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.6 38.5 38.6 38.5 38.6 38.5 38.6 38.5 38.6 38.5 38.6 38.5 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.6	VAPL pumping not requir	ed to be completed	21 35 21 35 28 63 35 28 28 28 28 28 70 21 28 126 28 36 27	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 10/5/2020 11/5/2020 11/5/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.6 0.6 0.6 0.5 0.6	NAPL pumping not requir	ed to be completed et to COVID-19 restrictions e to COVID-19 restrictions e to COVID-19 restrictions	21 35 21 35 28 63 35 28 28 28 28 70 21 28 126 28 36 27 28	DMT 4 DMT 5 DMT 4	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 1/3/2020 2/3/2020 3/2/2020 4/6/2020 6/1/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 10/5/2020 11/2/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.6 0.6 0.5 0.6	NAPL pumping not requir	ed to be completed	21 35 21 35 28 63 35 28 28 28 28 28 28 28 29 21 28 28 28 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/5/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 11/4/2020 3/2/3/2020 4/6/2020 5/4/2020 6/11/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.5 0.6	VAPL pumping not requir	et to COVID-19 restrictions to COVID-19 restrictions to COVID-19 restrictions to COVID-19 restrictions	21 35 21 35 28 63 35 28 28 28 28 70 21 28 126 28 36 27 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 8/3/2020 9/8/2020 10/5/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.6 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.6	NAPL pumping not requir	ed to be completed	21 35 21 35 28 63 35 28 28 28 70 21 28 126 28 36 27 28 35 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		ed to be completed	21 35 21 35 28 63 35 28 28 70 21 28 126 28 36 27 28 35 28	DMT ⁴ DMT	
	2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2020 3/2/3/2020 4/6/2020 6/1/2020 6/1/2020 10/5/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.8		ed to be completed	21 35 21 35 28 63 35 28 28 28 70 21 28 126 28 36 27 28 35 28	DMT ⁴	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 12/2/2019 11/4/2019 12/2/2019 1/1/3/2020 2/3/2/2020 4/6/2020 5/4/2020 6/1/2020 6/1/2020 11/2/2021 3/1/2021	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.8 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6		ed to be completed	21 35 21 35 28 63 35 28 63 35 28 28 28 70 21 28 28 28 28 28 36 27 28 35 28 36 27 28 35 28	DMT ⁴ DMT	
	2/4/2019 3/11/2019 4/1/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/9/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 11/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 9/8/3/2020 11/2/2020	38.7 38.6 38.8 38.8 38.6 38.5	0.3 0.4 0.3 0.3 0.4 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.8	VAPL pumping not requir	ed to be completed	21 35 21 35 28 63 35 28 28 28 70 21 28 126 28 36 27 28 35 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 8 DMT 9	

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			Product Apparent Height -	Product Apparent Height -	Approximate Volume of	Days Elapsed Between	Measurement Tool	
	Date	Depth to Product (ft)	Pre-pumping (ft)	Post-pumping (ft)	Product Recovered (gallons) ³	Measurement Readings	Used	Recovery Procedure Used
HARW-4	Cumulative 10/14/2010 - 12/10/2018	-	-	-	213.8		-	-
	1/14/2019	40.4	0.6			35	DMT ⁴	-
	2/4/2019	40.4	0.6			21	DMT ⁴	-
	3/11/2019	40.3	0.8			35	DMT ⁴	-
	4/1/2019	39.8	1.2			21	DMT ⁴	1
	5/6/2019	40.0	1.0			35	DMT ⁴	-
	6/3/2019	40.0	1.0			28	DMT ⁴	-
	8/5/2019	39.8	1.2			63	DMT ⁴	-
	9/9/2019	39.8	1.3			35	DMT ⁴	-
	10/7/2019	39.6	1.4			28	DMT ⁴	-
	11/4/2019	39.4	1.6			28	DMT ⁴	-
	12/2/2019			NAPL pumping not requir				•
	1/13/2020	39.7	1.3			70	DMT ⁴	i
	2/3/2020	39.7	1.3			21	DMT ⁴	1
	3/2/2020	40.3	0.7			28	DMT ⁴	-
	4/6/2020				ue to COVID-19 restrictions		-	=
	5/4/2020 6/1/2020				ue to COVID-19 restrictions ue to COVID-19 restrictions		-	-
		20.0				100	DMT ⁴	-
	7/6/2020 8/3/2020	39.8 37.5	1.3 1.5			126 28	DMT ⁴	-
					-		DMT ⁴	-
	9/8/2020	37.5 37.3	1.5			36 27	DMT ⁴	-
	10/5/2020	37.3	1.8 1.8			28	DMT ⁴	-
	11/2/2020	37.3 37.0					DMT ⁴	-
	12/7/2020		2.0	0.00	5.2	35		double diaphragm pump
	1/4/2021	38.1	0.9			28	DMT ⁴	-
	2/1/2021 3/1/2021	37.8	1.2	ping not completed due	to adverse weather conditions	56	DMT ⁴	-
		38.0	1.0				DMT ⁴	-
	4/5/2021 5/3/2021	38.0 37.8	1.0			35 28	DMT ⁴	-
						20		-
	6/7/2021	38.0	1.0			35	DMT ⁴	-
	6/7/2021	38.0			219.0			-
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018	38.0 TOTAL VOLUME RECO	1.0 OVERED TO DATE FROM -	 M HARW-4 (GALLONS) -	219.0 1036.4	35	DMT ⁴	-
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019	38.0 TOTAL VOLUME RECO	1.0 OVERED TO DATE FROM - 3.7	 M HARW-4 (GALLONS) - 0.1	219.0 219.0 1036.4 9.4	35 - 34	DMT ⁴	- - double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1//14/2019 2/4/2019	38.0 TOTAL VOLUME RECO	1.0 OVERED TO DATE FRO. 3.7 2.2	 M HARW-4 (GALLONS) - 0.1 0.1	 219.0 1036.4 9.4 5.4	35 - 34 21	DMT ⁴ - DMT ⁴ DMT ⁴	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019	38.0 TOTAL VOLUME RECO - 36.6 38.1 36.6	1.0 OVERED TO DATE FROM - 3.7 2.2 3.7		1036.4 9.4 5.4 9.4	35 - 34 21 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3	1.0 OVERED TO DATE FROM 3.7 2.2 3.7 2.0			35 34 21 35 22	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7	1.0 			35 34 21 35 22 35	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0			35 34 21 35 22 35 28	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1	1.0 OVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3			35 34 21 35 22 35 28 63	DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6	1.0 DVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7			35 - 34 21 35 22 35 28 63 35	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8			35 34 21 35 22 35 28 63 35 27	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6	1.0 OVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8			35 - 34 21 35 22 35 28 63 35	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5	1.0 DVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8			35 - 34 - 21 - 35 - 22 - 35 - 28 - 63 - 35 - 27 - 28	DMT 4	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/3/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3			35 34 21 35 22 35 28 63 35 27 28	DMT 4	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 12/2/2019 1/1/3/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3	1.0 OVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0		219.0 1036.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9	35 34 21 35 22 35 28 63 35 27 28 70 21	DMT 4	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 24/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/2/2019 11/3/2020 2/3/2/2020 3/2/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5	1.0 DVERED TO DATE FROM 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8			35 34 21 35 22 35 28 63 35 27 28	DMT 4	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 6/4/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/13/2020 2/3/2020 4/6/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3	1.0 DVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p			35 34 21 35 22 35 28 63 35 27 28 70 21	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 12/2/2019 1/13/2020 2/3/2020 4/6/2020 5/4/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3	1.0 DVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p		219.0 219.0 1036.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions	35 34 21 35 22 35 28 63 35 27 28 70 21	DMT 4 DMT 6 DMT 6 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9 DM	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019 11/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 35.0 38.3 37.5	1.0 DVERED TO DATE FROM 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p DNAPL p			35 34 21 35 22 35 28 63 35 27 28 70 21 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9 DM	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 1/3/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 37.5 35.0 38.3 37.5	1.0 OVERED TO DATE FRO. 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 DNAPL p DNAPL p DNAPL p DNAPL p 5.3			35 34 21 35 22 35 28 63 35 27 28 70 21 28	DMT 4 DMT 6 DMT 6 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/2/2019 11/3/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 7/6/2020 8/3/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p		219.0 219.0 1036.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions ue to COVID-19 restrictions	35 34 21 35 22 35 28 63 35 27 28 70 21 28	DMT 4 DMT 5 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 24/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 11/4/2019 12/2/2019 1/4/2020 5/4/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 35.0 38.3 37.5	1.0 DVERED TO DATE FROM 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p 3.3 2.0 3.3 3.3 3.3			35 - 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/3/2020 2/3/2020 3/2/2020 5/4/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 10/6/2020	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.0 38.1	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p 5.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 3.3 2.0			35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36 28	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/3/2020 3/2/2020 4/6/2020 6/1/2020 6/1/2020 9/8/2020 9/8/2020 9/8/2020 10/6/2020 11/2/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5	1.0 OVERED TO DATE FRO . 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 red to be completed 13.7 3.9 7.4 be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions 13.5 4.8 8.5 5.7 7.2	35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36 28 36 28 36 28	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 6/4/2019 6/4/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/2/2019 11/3/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 10/6/2020 11/2/2020 11/2/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5	1.0 DVERED TO DATE FROM 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DIAPL p DNAPL p 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.8			35	DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2020 2/3/2020 3/2/2020 4/6/2020 5/4/2020 5/4/2020 6/11/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p DNAPL p DNAPL p 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.3 2.8 2.8		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions 13.5 4.8 8.5 5.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36 28 36 28 36 28	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 11/3/2020 3/2/2020 4/6/2020 6/1/2020 6/1/2020 9/8/2020 9/8/2020 10/6/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 2.8 DNAPL p DNAPL p DNAPL p DNAPL p 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 2.0 3.3 3.3 2.3 3.3 2.8 2.8 2.8 2.0 DNAPL pum			35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 28 27 35 28 27 35 28	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 11/4/2020 2/3/2020 3/2/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 11/4/2020 11/4/2021 11/4/2021 11/4/2021 11/4/2021	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5	1.0 OVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p DNAPL p 3.3 2.0 3.3 2.3 2.8 2.8 2.8 2.0 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 to COVID-19 restrictions te to COVID-19 restrictions	35	DMT 4	double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 1/6/2020	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 36.7 37.5 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p 2.8 2.8 2.8 DNAPL p DNAPL p 3.6 3.3 3.3 3.3 3.3 3.3 3.3 3.		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions 13.5 4.8 8.5 5.7 7.2 7.2 7.2 7.0 to adverse weather conditions 9.4 8.2	35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36 28 36 28 36 28 27 35 28 36 28 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	DMT 4	double diaphragm pump
HARW-S	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 12/2/2019 1/13/2020 2/3/2020 3/2/2020 4/6/2020 6/1/2020 6/1/2020 6/1/2020 1/4/2020 1/1/2/2021 3/1/2021	38.0 TOTAL VOLUME RECC 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 37.5 37.5 38.3 37.0 38.1 37.5 37.5 38.3	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions 13.5 4.8 8.5 5.7 7.2 7.2 7.2 7.2 5.0 to adverse weather conditions 9.4 8.2	35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 28 27 35 28 36 28 27 35 28 36 28 27 35 28	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 double diaphragm pump
HARW-5	6/7/2021 Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/2/2019 5/7/2019 6/4/2019 8/6/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 1/6/2020	38.0 TOTAL VOLUME RECO 36.6 38.1 36.6 38.3 36.7 37.3 35.1 36.6 37.5 37.5 35.0 38.3 37.5 35.0 38.3 37.5 35.0 38.3 37.5 36.7 37.5 37.5	1.0 DVERED TO DATE FRO 3.7 2.2 3.7 2.0 3.6 3.0 5.3 3.7 2.8 2.8 DI 5.3 2.0 2.8 DNAPL p DNAPL p DNAPL p 2.8 2.8 2.8 DNAPL p DNAPL p 3.6 3.3 3.3 3.3 3.3 3.3 3.3 3.		219.0 1036.4 9.4 9.4 5.4 9.4 5.0 9.1 7.6 13.5 9.6 7.2 7.0 ed to be completed 13.7 3.9 7.4 be to COVID-19 restrictions be to COVID-19 restrictions be to COVID-19 restrictions 13.5 4.8 8.5 5.7 7.2 7.2 7.2 7.0 to adverse weather conditions 9.4 8.2	35 34 21 35 22 35 28 63 35 27 28 70 21 28 126 28 36 28 36 28 36 28 27 35 28 36 28 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	DMT 4	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 - 12/10/2018	Deptil to Floddet (it)	Fre-pumping (it)	Post-pullipling (III)		weasurement Readings	USeu	Recovery Procedure Osed
HARW-6		-		-	0.0	-	- DIAT 4	-
	1/14/2019	40.1	0.7	-	-	35	DMT ⁴	-
	2/4/2019	40.1	0.7	-	-	21	DMT ⁴	-
	3/11/2019	40.4	0.4	-	-	35	DMT ⁴	-
	4/1/2019	40.3	0.5	-	-	21	DMT ⁴	-
	5/6/2019	40.3	0.5	-	-	35	DMT ⁴	-
	6/3/2019	40.3	0.5	-	-	28	DMT ⁴	-
	8/5/2019	40.3	0.5	-	-	63	DMT ⁴	-
	9/9/2019	40.0	0.8	-	-	35	DMT ⁴	
	10/7/2019	40.2	0.6	-	-	28	DMT ⁴	-
	11/4/2019	40.1	0.7	-	_	28	DMT ⁴	-
	12/2/2019			NAPL pumping not requir	red to be completed			-
	1/13/2020	40.0	0.8	-	_	70	DMT ⁴	-
	2/3/2020	39.8	1.0	_		21	DMT ⁴	
	3/2/2020	40.1	0.8	-	-	28	DMT ⁴	-
	4/6/2020	40.1			ue to COVID-19 restrictions	28		-
	5/4/2020		DNAFLP	umping not completed di	ue to COVID-19 restrictions		-	-
	6/1/2020				ue to COVID-19 restrictions		-	
		40.0				100	DMT ⁴	
	7/6/2020	40.6	0.3	-	-	126		-
	8/3/2020	40.6	0.2	-	-	28	DMT ⁴	-
	9/8/2020	40.4	0.4	-	-	36	DMT ⁴	-
	10/5/2020	40.4	0.4	-	-	27	DMT ⁴	-
	11/2/2020	40.3	0.5	-	-	28	DMT ⁴	=
	12/7/2020	40.3	0.5	-	-	35	DMT ⁴	-
	1/4/2021	40.1	0.7	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pum	ping 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	-
	0/1/2021	40.0	0.5	-	-	35	DIVIT	-
			OVERED TO DATE FROM		0.0	35	DIVIT	-
						35	DIWI	-
HARW-7						-	DIWI1	•
HARW-7					0.0	- 34	- DMT 4	· ·
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019	TOTAL VOLUME RECO	OVERED TO DATE FROM - 0.9	M HARW-6 (GALLONS)	0.0 550.2	- 34	- DMT ⁴	
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019	- 41.1 40.8	- 0.9 1.2	M HARW-6 (GALLONS) - - -	550.2 - -	- 34 21	- DMT ⁴ DMT ⁴	
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019	- 41.1 40.8 40.3	0.9 1.2 1.7	M HARW-6 (GALLONS) - - - - -	0.0 550.2 - -	34 21 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	-
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019		0.9 1.2 1.7 2.5	0.1	0.0 550.2 - - - - 6.3	34 21 35 21	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019	41.1 40.8 40.3 39.5 41.1	0.9 1.2 1.7 2.5 0.9	### HARW-6 (GALLONS)	0.0 550.2 - - - - - 6.3	34 21 35 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - double diapragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019	70TAL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3	0.9 1.2 1.7 2.5 0.9 0.8	M HARW-6 (GALLONS)	0.0 550.2 - - - - 6.3	34 21 35 21 35 21 35 28	DMT ⁴	- - - - double diaphragm pump -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019	- 41.1 40.8 40.3 39.5 41.1 41.3 40.3	0.9 1.2 1.7 2.5 0.9 0.8 1.7	M HARW-6 (GALLONS)	0.0 550.2 - - - 6.3 - -	34 21 35 21 35 21 35 28 63	DMT ⁴	- - - - double diaphragm pump - - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019	707AL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0	### HARW-6 (GALLONS)	0.0 550.2 - - - - 6.3 - - - - 4.6	34 21 35 21 35 21 35 28 63	DMT ⁴	- - - - double diaphragm pump -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/6/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019	70TAL VOLUME RECO - 41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0 40.9	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0	M HARW-6 (GALLONS)	0.0 550.2 - - - 6.3 - -	34 21 35 21 35 21 35 28 63 36 27	DMT ⁴	- - - - double diaphragm pump - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019	707AL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0	### HARW-6 (GALLONS)	0.0 550.2 - - - - 6.3 - - - - 4.6	34 21 35 21 35 21 35 28 63	DMT ⁴	- - - - double diaphragm pump - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019	41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0 40.9 40.5	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5	W HARW-6 (GALLONS) 0.1 0.3 - VAPL pumping not requir	0.0 550.2 - - - - 6.3 - - - - 4.6	34 21 35 21 35 21 35 28 63 36 27 28	DMT ⁴	- - - - double diaphragm pump - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 1/14/2020	70TAL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI	### HARW-6 (GALLONS)	0.0 550.2 - - - - 6.3 - - - - 4.6	34 21 35 21 35 28 63 36 27 28	DMT ⁴	- - - double diaphragm pump - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019	41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0 40.9 40.5	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5	W HARW-6 (GALLONS) 0.1 0.3 - VAPL pumping not requir	6.3 	34 21 35 21 35 21 35 28 63 36 27 28	DMT 4	- - - - double diaphragm pump - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 1/2/2/2019	70TAL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.0 40.9 40.5	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 Di 3.0	######################################	0.0 550.2	34 21 35 21 35 28 63 36 27 28	DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 1/14/2020	70TAL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 1.1 1.5 0.9 1.1 1.5 0.9 0.8 1.7 0.9 0.8 1.7 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	### HARW-6 (GALLONS)	0.0 550.2 	34 21 35 21 35 28 63 36 27 28	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 3/2/2020	70TAL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.0 40.9 40.5	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 D1 3.0 0.5 1.0 DNAPL p	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 ed to be completed 7.6 Le to COVID-19 restrictions Le to COVID-19 restrictions	34 21 35 21 35 28 63 36 27 28	DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019 1/14/2020 2/3/2020 4/6/2020	70TAL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.0 40.9 40.5	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 D1 3.0 0.5 1.0 DNAPL p	W HARW-6 (GALLONS)	0.0 550.2 	34 21 35 21 35 28 63 36 27 28	DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 12/2/2019 1/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020	41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.9 40.5 39.0 41.5 41.0	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.8 1.7 0.0 0.1 1.1 0.5 0.5 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 ed to be completed 7.6 - ue to COVID-19 restrictions ue to COVID-19 restrictions ue to COVID-19 restrictions	34 21 35 21 35 28 63 36 27 28 71 20 28	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump - double diaphragm pump - - - - - - - - - - - - -
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 12/2/2019 1/14/2020 2/3/2020 4/6/2020 6/1/2020 7/6/2020	70TAL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.8 3.0 0.5 1.0 0.5 0.5 0.9 0.8 3.0 0.5 0.5 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 dto be completed 7.6 be to COVID-19 restrictions	34 21 35 21 35 28 63 36 27 28 71 20 28	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/1/4/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 7/6/2020 8/3/2020	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 D1 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p DNAPL p 0.0 0.7	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 ed to be completed 7.6 le to COVID-19 restrictions to COVID-19 restrictions to COVID-19 restrictions to COVID-19 restrictions	- 34 21 35 21 35 28 63 36 27 28 71 20 28	DMT 4 DMT 6 DMT 6 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 4/1/2019 6/3/2019 6/3/2019 9/10/2019 107/2019 11/4/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 7/6/2020 8/3/2020 8/3/2020 8/3/2020 9/8/2020	70TAL VOLUME RECO 41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.9 40.5 39.0 41.5 41.0	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 3.0 0.5 1.0 0.5 1.0 0.0APL p 0NAPL p 0NAPL p 0NAPL p 0.9 0.9	W HARW-6 (GALLONS)	0.0 550.2	- 34 21 35 21 35 28 63 36 27 28 71 20 28	DMT 4	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 1/14/2020 2/3/2020 4/6/2020 6/1/2020 6/3/2020 8/3/2020 9/8/2020 9/8/2020 1/0/5/2020	70TAL VOLUME RECO - 41.1 40.8 40.3 39.5 41.1 41.3 40.3 40.0 40.9 40.5 39.0 41.5 41.0	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 Di 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p 0.9 3.3 0.7 0.9 1.6	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 4.6 to COVID-19 restrictions to to COVID-19 restrictions to to COVID-19 restrictions to COVID-19 restrictions a to COVID-19 restrictions	71 20 21 35 21 35 28 63 36 27 28 71 20 28	DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/1/4/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 9/8/2020 9/8/2020 10/5/2020 11/5/2020 11/5/2020	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p DNAPL p 0.0 0.7 0.9 1.6 2.0	WHARW-6 (GALLONS)	0.0 550.2 6.3 4.6 ed to be completed 7.6 to COVID-19 restrictions to COVID-19 restrictions to COVID-19 restrictions are to COVID-19 restrictions are to COVID-19 restrictions	- 34 21 35 21 35 28 63 36 27 28 71 20 28	DMT 4 DMT 6 DMT 6 DMT 7 DMT 9	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019 6/3/2019 8/5/2019 9/10/2019 107/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 5/4/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.9 40.5 39.0 41.5 41.0 38.7 41.3 41.1 41.3 41.1 41.3	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.8 1.7 2.0 1.1 1.5 0.9 0.6 1.7 2.0 0.7 0.9 0.8 0.8 0.7 0.9 0.8 0.8 0.7 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	WHARW-6 (GALLONS) 0.1 - 0.3 NAPL pumping not requir 0.1 - umping not completed du	0.0 550.2	- 34 21 35 21 35 28 63 36 27 28 71 20 28 126 28 36 27 28	DMT 4	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 6/1/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 Di 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 dot to be completed	- 34 21 35 21 35 28 63 36 27 28 71 20 28	DMT 4	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/1/4/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 6/3/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 9/8/2020 10/5/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p 0.9 0.7 0.9 0.16 0.7 0.9 0.9 0.16 0.7 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	WHARW-6 (GALLONS)	0.0 550.2	34 21 35 21 35 28 63 36 27 28 71 20 28 126 28 36 27 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 6/1/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020 1/1/2/2020	41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.9 40.5 39.0 41.5 41.0 38.7 41.3 41.1 41.3 41.1 41.3	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 Di 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	W HARW-6 (GALLONS)	0.0 550.2 6.3 4.6 dot to be completed	- 34 21 35 21 35 28 63 36 27 28 71 20 28 126 28 36 27 28	DMT 4	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/1/4/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 6/3/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 9/8/2020 10/5/2020 11/2/2020 11/2/2020 11/2/2020 11/2/2020	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI 3.0 0.5 1.0 DNAPL p DNAPL p DNAPL p 0.9 0.7 0.9 0.16 0.7 0.9 0.9 0.16 0.7 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	WHARW-6 (GALLONS)	0.0 550.2	34 21 35 21 35 28 63 36 27 28 71 20 28 126 28 36 27 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 4/1/2019 6/3/2019 6/3/2019 8/5/2019 9/10/2019 107/2019 11/4/2019 11/4/2020 2/3/2020 3/2/2020 4/6/2020 6/1/2020 7/6/2020 8/3/2020 9/8/2020 11/4/2020 11/4/2020 11/5/2020	41.1 40.8 40.3 39.5 41.1 41.3 40.0 40.9 40.5 39.0 41.5 41.0 41.1 41.3 41.1 41.3 40.4 40.0 41.8 40.8	OVERED TO DATE FROM	W HARW-6 (GALLONS)	0.0 550.2	- 34 21 35 21 35 28 63 36 27 28 71 20 28 28 28 36 27 28 28	DMT 4 DMT 5 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 5 DMT 4 DMT 5 DMT 6 DMT 6 DMT 7	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/1/4/2019 2/4/2019 3/11/2019 4/1/2019 6/3/2019 6/3/2019 6/3/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2020 2/3/2020 3/2/2020 4/6/2020 6/1/2020 6/1/2020 6/1/2020 10/5/2020 11/2/2021 3/1/2021	707AL VOLUME RECO 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI 3.0 0.5 1.0 DNAPL p	W HARW-6 (GALLONS)	0.0 550.2	21 34 21 35 21 35 28 63 36 27 28 71 20 28 126 28 36 27 28 36 27 28	DMT 4	double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/11/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 4/1/2019 6/3/2019 8/5/2019 9/10/2019 10/7/2019 11/4/2019 11/4/2019 1/14/2020 2/3/2020 4/6/2020 6/1/2020 6/1/2020 7/6/2020 8/3/2020 10/5/2020 11/2/2020 11/2/2020 1/4/2021 1/4/2021 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2020 1/4/2021 1/4/2021	70TAL VOLUME RECC 	0.9 1.2 1.7 2.5 0.9 0.8 1.7 2.0 1.1 1.5 DI 3.0 0.5 1.0 DNAPL pi DNAPL pi DNAPL pi 1.6 2.0 0.2 1.2 DNAPL pum 2.0 0.8	WHARW-6 (GALLONS)	0.0 550.2	71 20 28 36 27 28 63 36 27 28 71 20 28 126 28 36 27 28 28	DMT 4	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-8	Cumulative 7/19/2011 - 12/10/2018	-	-	-	26.9	-	-	-
	1/14/2019	41.5	1.5	-	-	35	DMT ⁴	-
	2/4/2019	41.5	1.5	-	-	21	DMT ⁴	-
	3/11/2019	41.3	1.7	-	-	35	DMT ⁴	-
	4/2/2019	41.0	2.0	0.3	4.6	22	DMT ⁴	double diaphragm pump
	5/6/2019	42.3	0.7	-	-	34	DMT ⁴	-
	6/3/2019	42.2	0.8	-	-	28	DMT ⁴	-
	8/5/2019	41.8	1.3	-	-	63	DMT ⁴	-
	9/9/2019	41.9	1.1	-	-	35	DMT ⁴	-
	10/7/2019	41.6	1.4	-	-	28	DMT ⁴	1
	11/4/2019	41.5	1.5	-	_	28	DMT ⁴	-
	12/2/2019			NAPL pumping not requir	ed to be completed		-	-
	1/13/2020	41.7	1.3		- 1	70	DMT ⁴	-
	2/3/2020	42.0	1.0	-	-	21	DMT ⁴	-
	3/2/2020	41.6	1.4	-	-	28	DMT ⁴	-
	4/6/2020		DNAPL p	umping not completed du	ue to COVID-19 restrictions		-	-
	5/4/2020				ue to COVID-19 restrictions		-	i
	6/1/2020		DNAPL p	umping not completed du	ue to COVID-19 restrictions		-	ı
	7/6/2020	41.3	1.7	-	-	126	DMT ⁴	i i
	8/3/2020	40.8	2.3	0.5	4.6	28	DMT ⁴	double diaphragm pump
	9/8/2020	42.1	0.9	-	-	36	DMT ⁴	ı
	10/5/2020	42.0	1.0	-	-	27	DMT ⁴	i
	11/2/2020	41.9	1.1	-	-	28	DMT ⁴	-
	12/7/2020	41.8	1.3	-	-	35	DMT ⁴	=
	1/4/2021	41.8	1.2	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pum	ping not completed due t	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	-
		TOTAL VOLUME RECO	VERED TO DATE FROM	M HARW-8 (GALLONS)	41.3			

TOTAL VOLUME RECOVERED TO DATE FROM ALL WELLS (GALLONS)

3030.7

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 Top of Screen: 26 ft Depth to Bottom: 40 ft

HARW-6 Angle from Vertical: 14° Vertical Depth to Top of Screen: 26.7 ft Vertical Depth to Bottom: 40.8 ft HARW-3
Angle from Vertical: 16.5°
Angle from Vertical: 16.5°

Angle from Vertical: 16.5° Angle from Vertical: 24.5° Vertical Depth to Top of Screen: 25.4 ft Vertical Depth to Bottom: 39 ft Vertical Depth to Bottom: 41 ft

 HARW-7
 HARW-8

 Depth to Top of Screen:
 27.5 ft
 Depth to Top of Screen:
 28.5 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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Reserved

² Reserved

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.