Atlantic Richfield Company

Paul G. Johnson

Operations Project Manager

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August 2, 2019

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, July2019
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 July 2019 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 July 1, 2019 through July 31, 2019.

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

Sincerely,

Paul G. Johnson

Operations Project Manager

FAM. GL

Enclosure



• Page 2

cc: Maureen Schuck, New York State Department of Health

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

Martha Gopal, Sovereign Consulting Inc.

File

ecc: Jacquelyn Nealon, New York State Department of Health

Kevin Farrar, New York State Department of Environmental Conservation

Benjamin Conlon, Esq. New York State Department of Environmental Conservation,

Office of General Counsel

Jim Lucari, BP

Michael Daneker, Arnold & Porter

FORMER ANACONDA WIRE AND CABLE PLANT SITE (a.k.a. HARBOR AT HASTINGS SITE) OU1 NYSDEC SITE 360022 MONTHLY PROGRESS REPORT 170

PREPARED BY: Atlantic Richfield Company

Paul Johnson

REPORTING PERIOD: July 1, 2019 through July 31, 2019

1. PROGRESS MADE THIS REPORTING PERIOD:

• DNAPL gauging and recovery was not performed in July 2019. The event was cancelled, as communicated to NYSDEC, due to anticipated extreme heat and associated health and safety risks. Therefore, Table I (event-specific gauging and pumping data) has not been provided in this report; Table II is provided and includes data through the June 2019 event.

2. UNANTICIPATED PROBLEM AREAS AND RECOMMENDED SOLUTIONS

None this reporting period.

3. PROBLEMS RESOLVED

• None this reporting period.

4. <u>DELIVERABLES SUBMITTED / RECEIVED</u>

• July 9, 2019, Atlantic Richfield to NYSDEC: Hastings June 2019 Monthly Progress Report.

5. UPCOMING EVENTS / ACTIVITIES PLANNED

- The next three DNAPL gauging and recovery events are tentatively scheduled to occur the weeks of August 5th, September 2nd, and October 7th, 2019.
- 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 5th, 2019, and the week of October 7th, 2019 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)
- Parsons Environment and Infrastructure Group, Inc. (Security)

7. PERCENTAGE COMPLETE

- DNAPL gauging and recovery ongoing
- LNAPL IRM ongoing

8. <u>DATA</u>

• 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

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

	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 Use
MW-12	Cumulative 10/9/2006 - 7/29/2010	Deptil to Product (it)	- re-pumping (it)	Post-pumping (it)	5.0	weasurement Readings	Useu -	Recovery Procedure Ose
	Summinum 10/0/2000 1720/2010	TOTAL VOLUME RI	COVERED TO DATE F	ROM MW-12 (GALLONS)	5.0			
								1
40W-12A	Cumulative 3/2/2009 - 12/10/2016	-	-	-	49.7	-	DMT ⁴	-
	1/16/2017	42.0	1.6	-	-	37	DMT ⁴	-
	2/20/2017 3/6/2017	42.3		pr pumping not completed	due to adverse weather conditions	49	DMT ⁴	-
	4/3/2017	42.3	1.3	-	-	28	DMT ⁴	
	5/1/2017	42.2	1.5	-	-	28	DMT ⁴	
	6/5/2017	42.1	1.3	-	-	35	DMT ⁴	-
	7/10/2017	42.3	1.3	-	-	35	DMT ⁴	-
	8/7/2017 8/7/2017	42.3	1.3	-	-	28	DMT ⁴	-
				-	-			-
	9/11/2017	42.5	1.1		-	35	DMT ⁴	-
	10/9/2017	42.3	1.3	-	-	28	DMT ⁴	-
	11/6/2017	42.3	1.3	-	-	28	DMT ⁴	-
	12/4/2017 1/8/2018		DNAPL pumpin	g not required to be comp	leted (10 event requirement met)		-	-
		40.0		or pumping not completed	due to adverse weather conditions	04	DMT4	-
	2/5/2018	42.2	1.4	-	-	91	DMT ⁴	-
	3/5/2018	42.3	1.3	-	-	28	DMT ⁴	-
	4/2/2018	42.0	1.6	-	-	28	DMT ⁴	-
	5/7/2018	41.9	1.7	-	-	35	DMT ⁴	-
	6/5/2018	42.5	1.1	-	-	29	DMT ⁴	-
	7/9/2018	42.2	1.4	-	-	34	DMT ⁴	-
	8/6/2018	42.3	1.3	-	-	28	DMT ⁴	-
	9/10/2018	42.3	1.3	-	-	35	DMT ⁴	-
	10/1/2018	41.9	1.7	-	-	21	DMT ⁴	-
	11/5/2018	42.9	0.8	-	-	35	DMT⁴	-
	12/10/2018	42.2	1.4	-	-	35	DMT ⁴	-
	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	42.4	1.2	-	-	28	DMT ⁴	-
		TOTAL VOLUME RECO	VERED TO DATE FROM	HAOW-12A (GALLONS)	49.7			
ARW-1	Cumulative 9/29/2010 - 12/10/2016				0.0	-		-
	1/16/2017	No product detected	0.0	-	-	37	DMT ⁴	-
	2/20/2017		DNAPL gauging of	or pumping not completed	due to adverse weather conditions		-	-
	3/6/2017	No product detected	0.0	-	-	49	DMT ⁴	-
	4/3/2017	No product detected	0.0	-	-	28	DMT ⁴	-
	5/1/2017	No product detected	0.0	-	-	28	DMT ⁴	-
	6/5/2017	No product detected	0.0	-	-	35	DMT ⁴	-
	7/10/2017	No product detected	0.0	-	-	35	DMT ⁴	-
	8/7/2017	No product detected	0.0	-	-	28	DMT ⁴	-
	9/11/2017	No product detected	0.0	-	-	35	DMT ⁴	-
	10/9/2017	No product detected	0.0	-	-	28	DMT ⁴	_
	11/6/2017	No product detected	0.0	1	_	28	DMT ⁴	
	12/4/2017	product detected		a not required to be comp	leted (10 event requirement met)		-	1
	1/8/2018				due to adverse weather conditions		-	
		No product detected	0.0	-	-	91	DMT ⁴	-
	2/5/2018		0.0	-	-	28	DMT ⁴	-
	2/5/2018 3/5/2018	No product detected		 		28	DMT ⁴	-
	3/5/2018	No product detected No product detected	0.0	-				-
		No product detected No product detected No product detected	0.0	-	-	35	DMT ⁴	
	3/5/2018 4/2/2018 5/7/2018	No product detected No product detected	0.0	-	-	35		-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018	No product detected No product detected No product detected	0.0			35 29	DMT ⁴	
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018	No product detected No product detected No product detected No product detected	0.0 0.0 0.0	-	-	35 29 34	DMT ⁴ DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018	No product detected No product detected No product detected No product detected No product detected	0.0 0.0 0.0 0.0	-	-	35 29 34 28	DMT ⁴ DMT ⁴ DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018	No product detected No product detected No product detected No product detected No product detected No product detected	0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0			35 29 34 28 35 21 35	DMT ⁴	
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		· · ·	35 29 34 28 35 21 35 35	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 12/10/2018 1/4/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 35	DMT ⁴	
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 12/10/2018 1/14/2019 2/4/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 35 35	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 12/10/2018 1/14/2019 2/4/2019 3/11/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 35 35 35	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 12/10/2018 12/10/2018 1/4/2019 2/4/2019 3/11/2019 4/1/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 35 35 35 21 35 21	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 11/5/2018 12/10/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 21 35 21 35 21 35 35 21 35	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 12/10/2018 12/10/2018 1/4/2019 2/4/2019 3/11/2019 4/1/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 35 35 35 21 35 21	DMT ⁴	-
	3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 11/5/2018 12/10/2018 1/14/2019 2/4/2019 3/11/2019 4/1/2019 5/6/2019	No product detected	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-	-	35 29 34 28 35 21 35 35 21 35 21 35 21 35 35 21 35	DMT ⁴	-

SOVEREIGN CONSULTING INC.

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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
IARW-2	Cumulative 9/29/2010 - 12/10/2016	- Dopan to 1 Todadot (it)	-	- oot pumping (it)	711.4	-	-	-
	1/18/2017	36.0	4.0	0.7	8.7	37	DMT ⁴	double diaphragm pump
	2/20/2017	00.0			due to adverse weather conditions	<u> </u>	-	-
	3/6/2017	36.3	3.7	0.2	9.1	47	DMT ⁴	double diaphragm pump
	4/3/2017	38.0	2.0	0.04	5.1	28	DMT ⁴	double diaphragm pump
	5/1/2017	38.4	1.6			28	DMT ⁴	-
	6/5/2017	36.0	4.0	0.17	10.0	35	DMT ⁴	double diaphragm pump
	7/10/2017	38.2	1.8	-	-	35	DMT ⁴	-
	8/8/2017	35.3	4.7	0	12.2	29	DMT ⁴	double diaphragm pump
	9/11/2017	39.5	0.5	-	-	34	DMT ⁴	-
	10/9/2017	36.9	3.1	0.2	7.6	28	DMT ⁴	double diaphragm pump
	11/6/2017	39.0	1.0	-	-	28	DMT ⁴	-
	12/4/2017		DNAPL pumpin	g not required to be comp	leted (10 event requirement met)		-	-
	1/8/2018		DNAPL gauging of	or pumping not completed	due to adverse weather conditions		-	-
	2/5/2018	34.3	5.7	0.08	14.6	91	DMT ⁴	double diaphragm pump
	3/5/2018	38.8	1.3	-	-	28	DMT ⁴	-
	4/3/2018	36.9	3.1	0	8.1	29	DMT ⁴	double diaphragm pump
	5/7/2018	38.2	1.8	-	-	34	DMT ⁴	-
	6/5/2018	36.6	3.4	0.17	8.5	29	DMT ⁴	double diaphragm pump
	7/9/2018	38.5	1.5	-	-	34	DMT ⁴	=
	8/6/2018	37.5	2.5	0.3	5.7	28	DMT ⁴	double diaphragm pump
	9/10/2018	38.4	1.6	-	-	35	DMT ⁴	-
	10/1/2018	37.5	2.5	0.08	6.3	21	DMT ⁴	double diaphragm pump
	11/5/2018	40.0	0.0	-	-	35	DMT ⁴	-
	12/10/2018	38.0	2.0	0.08	5	35	DMT ⁴	double diaphragm pump
	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	36.8	3.2	0.25	7.6	35	DMT ⁴	double diaphragm pump
	6/3/2019	38.8	1.3	-	-	28	DMT ⁴	-
		T0741 1/011111 D7	COVERED TO DATE FR		824.9			
		TOTAL TOLDINE RE	DOVERED TO DATE TH	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	024.3			
A DIA/- 2	Cumulativa 10/14/2010 12/10/2016	TOTAL VOLUME RE	OOVERED TO DATE TR					
ARW-3	Cumulative 10/14/2010 - 12/10/2016	-	-	-	25.3	- 27	- DMT ⁴	•
ARW-3	1/16/2017	37.4	1.6	-	25.3	37	DMT ⁴	-
ARW-3	1/16/2017 2/20/2017	37.4	- 1.6 DNAPL gauging o	-	25.3		-	
ARW-3	1/16/2017 2/20/2017 3/6/2017	- 37.4 37.9	- 1.6 DNAPL gauging o 1.1	-	25.3	49	- DMT ⁴	
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017	37.4 37.9 37.6	- 1.6 DNAPL gauging o 1.1 1.4	-	25.3	49 28	DMT ⁴	
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017	37.4 37.9 37.6 37.7	1.6 DNAPL gauging of 1.1 1.4 1.3	-	25.3	49 28 28	DMT ⁴ DMT ⁴ DMT ⁴	
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017	37.4 37.9 37.6 37.7 37.7	1.6 DNAPL gauging of 1.1 1.4 1.3	or pumping not completed	25.3 	49 28 28 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
ARW-3	1/18/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017	37.4 37.9 37.6 37.7 37.7 37.3	1.6 DNAPL gauging (1.1 1.4 1.3 1.3		25.3 - due to adverse weather conditions	49 28 28 35 35	DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4	- - - - -
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017	37.4 37.9 37.6 37.7 37.7 37.3 37.6	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7	r pumping not completed	25.3 	49 28 28 35 35 28	DMT ⁴	- - - - - -
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4	r pumping not completed	25.3	49 28 28 35 35 28 35	- DMT ⁴	- - - - -
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017	37.4 37.9 37.6 37.7 37.3 37.3 37.6 37.2 37.6	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8	r pumping not completed	25.3 due to adverse weather conditions	49 28 28 35 35 35 28 35 28	- DMT 4	- - - - - -
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4	r pumping not completed	25.3	49 28 28 35 35 28 35	- DMT ⁴	- - - - - -
4RW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017	37.4 37.9 37.6 37.7 37.3 37.3 37.6 37.2 37.6	. 1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8	r pumping not completed g not required to be comp	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28	- DMT 4 DMT 5 DMT 6 DMT	-
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 1/8/2018	37.4 37.9 37.6 37.7 37.7 37.7 37.3 37.6 37.2 37.6 37.2	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8 DNAPL pumpin	r pumping not completed g not required to be comp	25.3	49 28 28 35 35 35 28 35 28	- DMT ⁴ DMT	- - - - - - - - -
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017	37.4 37.9 37.6 37.7 37.3 37.3 37.6 37.2 37.6	. 1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8	r pumping not completed g not required to be comp	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28	- DMT 4 DMT 5 DMT 6 DMT	-
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 1/8/2018	37.4 37.9 37.6 37.7 37.7 37.7 37.3 37.6 37.2 37.6 37.7	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging of 1.5	r pumping not completed g not required to be comp	25.3	49 28 28 35 35 28 35 28 28 28	- DMT 4	-
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/17/2017 9/11/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018	37.4 37.9 37.6 37.7 37.3 37.3 37.6 37.2 37.6 37.7	. 1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging of 1.5	r pumping not completed	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 35 28 28 28	- DMT 4	-
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 18/2018 3/5/2018 4/2/2018 5/7/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6	1.6 DNAPL gauging (1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging (1.5 1.8 1.8 1.1 0.4	or pumping not completed	due to adverse weather conditions	49 28 28 35 35 28 35 28 28 28 28 28	- DMT 4	-
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 5/7/2018 6/5/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.7 37.3 37.6 37.2 37.6 37.7	1.6 DNAPL gauging (1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	r pumping not completed	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 35 28 28 28 28 29 91	- DMT 4	
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 12/4/2017 12/4/2018 2/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018	37.4 37.9 37.9 37.7 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8 1.9 DNAPL pumpin DNAPL pumpin DNAPL gauging of 1.5 1.5 0.4 0.3 0.3	g not required to be completed - g not required to be compor pumping not completed	due to adverse weather conditions	49 28 28 35 35 28 35 28 35 28 28 28 28	- DMT ⁴ DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 7 DMT 6 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 12/4/2017 18/2018 2/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6	1.6 DNAPL gauging (1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging (1.5 1.5 1.8 1.5 0.4 0.3 0.3	g not required to be compressed on the completed on the complete on the comp	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 36 28 28 28 28 28 31 31 32 32 33 34 28	- DMT 4	double diaphragm pump
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 4/2/2018 6/5/2018 6/5/2018 8/6/2018 8/6/2018	37.4 37.9 37.6 37.7 37.7 37.7 37.3 37.6 37.2 37.5 36.6 37.7	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.1 1.4 1.8 DNAPL pumpin DNAPL gauging of 1.5 1.5 0.4 0.3 0.3 0.4 0.4	g not required to be completed - g not required to be completed - 0.3 - 0.3	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 28 28 28 29 31 28 29 34 28 35 35	- DMT 4	double diaphragm pump
RRW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 12/4/2017 12/4/2018 2/5/2018 3/5/2018 4/2/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8 1.9 DNAPL pumpin DNAPL pumpin DNAPL pumpin DNAPL pumpin ONAPL pum	g not required to be completed - g not required to be compor pumping not completed	25.3	91 28 28 28 28 28 28 28 28 28 28 28 28 28	- DMT ⁴ DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	double diaphragm pump
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 5/7/2018 6/5/2018 6/5/2018 6/5/2018 9/10/2018 10/1/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6 38.6 38.6	1.6 DNAPL gauging (1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging (1.1 1.5 1.6 1.6 0.4 0.3 0.3 0.4 0.4 0.4 0.2	g not required to be compromised on the completed on the compromise of the compromise of the compromise of the compromise of the completed on the completed on the completed on the complete o	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 36 28 28 28 28 28 28 21 35	- DMT 4	double diaphragm pump
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2018 2/5/2018 3/5/2018 4/2/2018 5/7/2018 6/5/2018 9/10/2018 8/6/2018 9/10/2018 11/5/2018	37.4 37.9 37.6 37.7 37.7 37.7 37.3 37.6 37.2 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.8	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.8 1.4 1.8 1.4 1.8 0.0APL pumpin ONAPL gauging of 1.5 1.8 0.4 0.4 0.4 0.4 0.2 0.3	g not required to be completed - g not required to be completed - 0.3	25.3 due to adverse weather conditions	49 28 28 35 35 35 28 35 28 28 28 28 28 28 21 35 29 34 28 35 21 35 35	- DMT 4	double diaphragm pump
RW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 12/4/2017 18/2018 2/5/2018 3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.8	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin of 1.5 1.5 0.4 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3	g not required to be compromised on the completed on the compromise of the compromise of the compromise of the compromise of the completed on the completed on the completed on the complete o	25.3 - due to adverse weather conditions	91 28 28 28 28 28 28 28 28 28 28 28 28 28	- DMT ⁴ DMT 1 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	double diaphragm pump
RRW-3	1/16/2017 2/20/2017 3/6/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 5/7/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 11/16/2018 11/16/2018 11/16/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.8 38.8	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging of 1.5 1.6 0.4 0.3 0.3 0.4 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3	g not required to be completed - g not required to be completed - 0.3	25.3 due to adverse weather conditions	49 28 28 35 35 35 28 35 28 36 28 28 28 28 21 35 29 34 28 35 21	- DMT 4	double diaphragm pump
RW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 12/4/2017 18/2018 2/5/2018 3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.8	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin of 1.5 1.5 0.4 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3	g not required to be compor pumping not completed	25.3	91 28 28 28 28 28 28 28 28 28 28 28 28 28	- DMT 4	double diaphragm pump
RRW-3	1/16/2017 2/20/2017 3/6/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 5/7/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 11/16/2018 11/16/2018 11/16/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 37.5 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.8 38.8	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging of 1.5 1.6 0.4 0.3 0.3 0.4 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3	g not required to be comport pumping not completed	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 36 28 28 28 28 21 35 29 34 28 35 21	- DMT 4	double diaphragm pump
ARW-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 5/7/2018 6/5/2018 6/5/2018 9/10/2018 11/14/2018 11/5/2018 11/14/2019 2/4/2019 3/11/2018	37.4 37.9 37.6 37.7 37.7 37.7 37.7 37.6 37.2 37.6 37.7 37.5 38.6 38.7 38.6 38.6 38.6 38.8 38.7 38.7 38.7	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging of 1.5 1.6 0.4 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3 0.3 0.4 0.4	g not required to be completed - g not required to be completed - 0.3	25.3 due to adverse weather conditions	49 28 28 35 35 35 28 35 28 28 28 28 28 28 21 35 21 35 35 21 35	- DMT 4	double diaphragm pump
irw-3	1/16/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 12/4/2018 2/5/2018 3/5/2018 4/2/2018 5/7/2018 6/5/2018 7/9/2018 8/6/2018 9/10/2018 10/1/2018 11/5/2018 11/1/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 38.6 38.7 38.6 38.6 38.8 38.7 38.7 38.7 38.7 38.6 38.7	1.6 DNAPL gauging of 1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin of 1.5 1.5 0.4 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3	g not required to be completed - g not required to be completed - 0.3	25.3 due to adverse weather conditions	49 28 28 35 35 35 28 35 28 28 28 28 28 28 28 21 35 21 35 21	- DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 6 DMT 7 DMT 8 DMT 9	double diaphragm pump
RW-3	1/16/2017 2/20/2017 3/6/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 4/2/2018 4/2/2018 5/7/2018 6/5/2018 9/10/2018 11/14/2019 11/16/2018 11/16/2018 9/10/2018 11/16/2018 9/10/2018 11/16/2018 11/16/2018 11/16/2018	37.4 37.9 37.6 37.7 37.7 37.3 37.6 37.2 37.6 37.2 37.5 38.6 38.7 38.6 38.7 38.6 38.7 38.6 38.8 38.8 38.8	1.6 DNAPL gauging (1.1 1.4 1.3 1.3 1.7 1.4 1.8 1.4 1.3 DNAPL pumpin DNAPL gauging (1.6 1.5 1.6 1.6 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	g not required to be compor pumping not completed	25.3 - due to adverse weather conditions	49 28 28 35 35 35 28 35 28 35 28 28 28 28 28 21 35 35 21 35 21 35	- 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-4	Cumulative 10/14/2010 - 12/10/2016	Deptil to Floduct (it)	rie-pullipling (it)	Fost-pullipling (it)	202.3	measurement Readings	Useu	Recovery Procedure Osed
TAKW-4	1/16/2017	39.3	1.7	•	202.3	37	DMT ⁴	
	2/20/2017	39.3		r numning not completed	due to adverse weather conditions	31	DMT ⁴	
	3/6/2017	39.5	1.5	- pumping not completed	due to adverse weather conditions	49	DMT ⁴	
	4/4/2017	38.5	2.5	0.2	6.1	29	DMT ⁴	double diaphragm pump
	5/1/2017	40.3	0.8			27	DMT ⁴	
	6/5/2017	40.3	0.8			35	DMT ⁴	-
	7/10/2017	39.9	1.1		_	35	DMT ⁴	-
	8/7/2017	39.9	1.1			28	DMT ⁴	
	9/11/2017	39.6	1.4			35	DMT ⁴	-
	10/9/2017	39.8	1.2			28	DMT ⁴	
	11/6/2017	39.4	1.6			28	DMT ⁴	-
	12/4/2017			not required to be comp	leted (10 event requirement met)		-	-
	1/8/2018		DNAPL gauging of	r pumping not completed	due to adverse weather conditions		-	-
	2/5/2018	39.3	1.7			91	DMT ⁴	-
	3/5/2018	39.9	1.1			28	DMT ⁴	-
	4/2/2018	39.3	1.7			28	DMT ⁴	-
	5/8/2018	38.8	2.2	0.1	5.4	36	DMT ⁴	double diaphragm pump
	6/5/2018	40.8	0.2			28	DMT ⁴	-
	7/9/2018	40.8	0.2			34	DMT ⁴	-
	8/6/2018	40.8	0.3			28	DMT ⁴	-
	9/10/2018	40.8	0.2			35	DMT ⁴	-
	10/1/2018	40.5	0.5			21	DMT ⁴	-
	11/5/2018	40.5	0.5			35	DMT ⁴	-
	12/10/2018	40.4	0.6			35	DMT ⁴	-
	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	-
	5/6/2019	40.0	1.0			35	DMT ⁴	-
	6/3/2019	40.0	1.0			28	DMT ⁴	-
HARW-5	Cumulative 7/18/2011 - 12/10/2016	TOTAL VOLUME RE	COVERED TO DATE FRO	OM HARW-4 (GALLONS)	213.8 800.2	-	-	-
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017		COVERED TO DATE FRO - 5.1	OM HARW-4 (GALLONS) - 0.2	800.2 14.1	28 - - 37	DMT ⁴	- double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017	TOTAL VOLUME RE- 35.2	- 5.1 DNAPL gauging of	OM HARW-4 (GALLONS) - 0.2 r pumping not completed	800.2 14.1 due to adverse weather conditions	37	- DMT ⁴	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017	35.2 37.2	5.1 DNAPL gauging of 3.1	OM HARW-4 (GALLONS) - 0.2 or pumping not completed 0.1	213.8 800.2 14.1 due to adverse weather conditions 8.7	- 37 48	DMT 4 - DMT 4	double diaphragm pump - double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017	35.2 37.2 35.3	5.1 DNAPL gauging of 3.1 5.0	OM HARW-4 (GALLONS) 0.2 or pumping not completed 0.1 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9	- 37 48 29	DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017	- 35.2 37.2 36.3 34.3	5.1 DNAPL gauging of 3.1 5.0 6.0	- 0.2 If pumping not completed 0.1 0.0 0.0 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7	37 48 29 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017	35.2 35.2 37.2 35.3 34.3 35.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0	0.2 r pumping not completed 0.1 0.0 0.0 0.1 0.0 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8	37 48 29 28 34	- DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017	35.2 35.2 35.3 34.3 35.3 35.0	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3	0.2 o.2 o.0 o.0 o.0 o.0 o.1 o.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7	- 37 48 29 28 34		double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017	707AL VOLUME RE	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0	0.2 r pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7	37 48 29 28 34 36 27	DMT ⁴	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017	35.2 35.2 35.3 35.3 34.3 35.3 35.3 35.3 35.3 34.6	5.1 DNAPL gauging of 3.1. 5.0 6.0 5.0 5.3 5.0 5.7	0.2 r pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.3	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8	37 48 29 28 34 36 27 35	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017	36.2 37.2 36.3 34.3 35.3 35.0 35.0 36.3 34.6 35.6	5.1 DNAPL gauging of 3.1 5.0 6.0 5.3 5.0 5.7 4.7	0.2 0.2 0.0 0.0 0.1 0.1 0.1 0.3 0.0 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1	- 37 48 29 28 34 36 27 35	DMT ⁴	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017	35.2 35.2 35.3 35.3 34.3 35.3 35.3 35.3 35.3 34.6	5.1 DNAPL gauging of 3.1 5.0 6.0 6.0 5.3 5.0 5.7 4.7	0.2 r pumping not completed 0.1 0.1 0.1 0.1 0.1 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3	37 48 29 28 34 36 27 35	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017	36.2 37.2 36.3 34.3 35.3 35.0 35.0 36.3 34.6 35.6	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pumpin.	0.2 o.2 o.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1	- 37 48 29 28 34 36 27 35	DMT ⁴	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 1/8/2018	36.2 37.2 36.3 34.3 35.3 35.0 35.0 35.0 36.3	5.1 DNAPL gauging c 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pauping	0.2 o.2 o.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3	- 37 48 29 28 34 36 27 35	DMT ⁴	double diaphragm pump
HARW-S	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017	777AL VOLUME RE	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pumpin.	OM HARW-4 (GALLONS)	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to due to adverse weather conditions	- 37 48 29 28 34 36 27 35 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 1/6/2018	35.2 37.2 35.3 34.3 35.3 35.0 35.3 35.0 36.0 36.0 36.0	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.3 DNAPL pumping DNAPL gauging of 5.5 5.6	0.2 pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9	37 48 29 28 34 36 27 35 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 18/2018	707AL VOLUME RE 35.2 37.2 35.3 34.3 35.3 35.0 35.3 34.6 35.6 36.0 34.8 35.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pumping of 3.5 DNAPL gauging of 3.5 5.5 DNAPL gauging of 3.5 5.5	0.2 or pumping not completed 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.3 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions	37 48 29 28 34 36 27 35 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/22017 6/5/22017 7/11/2017 8/17/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 18/2018 2/6/2018 4/3/2018	35.2 37.2 35.3 35.3 34.3 35.3 35.3 35.3 36.0 36.0 36.0	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.5 5.0 4.0	0.2 r pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions	37 48 29 28 34 36 27 35 28 28 28 28	DMT 4 DMT 5 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 7 DMT 6 DMT 6 DMT 7 DMT 6 DMT 7 DMT 6 DMT 7 DMT 7 DMT 8	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 18/2018 3/6/2018 4/3/2018	TOTAL VOLUME RE 35.2 37.2 35.3 34.3 35.3 35.0 35.0 36.3 36.0 36.0 34.8 35.8 36.3 36.3 36.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.6 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	0.2 or pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 12.2 11.3 12.8 14.1 12.2 11.3 12.8 14.1 13.9 12.8 13.9 12.8 13.9 13.9	37 48 29 28 34 36 27 35 28 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 18/2018 3/6/2018 4/3/2018 5/8/2018	777AL VOLUME RE 36.2 37.2 36.3 34.3 35.3 35.0 36.3 34.6 36.6 36.0 34.8 35.3 36.3 36.3 36.3 36.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pumpin DNAPL gauging of 3.5 5.0 3.1 5.0 5.7 4.7 4.3 DNAPL pumpin DNAPL gauging of 3.5 5.0 4.0 5.2 3.9	0.2 on HARW-4 (GALLONS) 0.2 on pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.3 0.0 0.0 g not required to be comp or pumping not completed 4.0 0.1 0.3 0.0 0.0 0.1 0.1 0.1 0.2	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9 12.8 9.8	37 48 29 28 34 36 27 35 28 28 28 28 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/22017 6/5/22017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 12/4/2017 18/2018 2/6/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018	35.2 37.2 35.3 34.3 35.3 34.3 35.3 35.3 35.0 35.0 35.0 35.0 35.0 35	5.1 DNAPL gauging of 3.1. 5.0 6.0 6.0 5.0 5.3 5.0 6.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.0 DNAPL gauging of 5.5 3.0 DNAPL gauging of 5.5 3.0 4.0 4.0 5.2 3.9 4.5	0.2 o.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.2 14.1 12.2 11.3 11.3 12.2 12.2 13.3 14.1 15.3 14.1 15.2 12.8 14.1 15.8 18.8 19.8 19.8	37 48 29 28 34 36 27 35 28 28 28 28 28 35 36 27 35 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 18/2018 2/6/2018 4/3/2018 6/5/2018 6/5/2018 6/5/2018 7/9/2018	TOTAL VOLUME RE	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.5 DNAPL gauging of 5.5 5.7 5.7 5.7 5.7 5.7 5.7 5.8 5.8 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9	0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9 12.8 9.8 13.3 9.8 11.5 9.7	- 37 48 29 28 34 36 27 35 28 28 28 28 28 28 34 35 28 28 28 34 35 28 28 28 28 28 28 28 28 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 18/2018 2/6/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018 9/10/2018	35.2 37.2 35.3 34.3 35.3 35.3 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.5 5.0 5.0	0.2 r pumping not completed 0.1 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 12.2 11.3 12.8 14.1 12.2 11.3 13.9 12.8 14.1 11.5 9.8 11.5 9.7	37 48 29 28 34 36 27 35 28 28 28 28 28 28 34 4 29 34 36 27 35 28 28 28 34 36 27 35 28 36 27 37 38 28 28 38 38 38 38 38 38 38 38 38 3	DMT 4 DMT 5 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 7 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 7	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 1/1/2017 10/9/2017 11/6/2017 12/4/2017 12/4/2017 13/6/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018 8/7/2018 8/7/2018 8/7/2018 9/10/2018	35.2 37.2 35.3 34.3 35.3 35.3 35.3 35.0 35.3 35.0 35.6 35.6 35.6 36.0 36.0	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.1 5.2 5.0 4.0 5.2 3.9 4.5 3.8 4.6	0.2 or pumping not completed 0.1 0.0 0.0 0.1 0.1 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 9.8 13.3 9.8 11.5 9.7 11.7 5.0	37 48 29 28 34 36 27 35 28 28 28 28 28 28 29 28 29 29 20 20 20 21 22 23 24 25 26 27 27 28 28 28 28 28 28 28 28 28 28	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 18/2018 2/6/2018 4/3/2018 4/3/2018 6/5/2018 7/9/2018 8/7/2018 9/10/2018	TOTAL VOLUME RE	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL pumpin DNAPL gauging of 3.5 5.0 5.5 3 5.0 5.7 4.7 4.3 3 DNAPL pumpin DNAPL gauging of 3.5 5.0 4.0 4.0 5.2 3.9 4.5 3.8 4.6 2.0	OM HARW-4 (GALLONS)	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9 12.8 9.8 11.5 9.8 11.5 9.7 11.7 5.0		DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2017 7/11/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 18/2018 4/3/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018 8/17/2018 8/17/2018 11/5/2018 11/5/2018	35.2 37.2 35.3 34.3 34.3 35.3 35.3 35.3 35.3 36.0 35.6 35.6 35.6 35.6 35.6 35.7 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.7 4.7 4.7 4.9 DNAPL gauging of 5.5 5.0 5.5 5.0 5.5 5.0 4.0 4.0 5.2 3.9 4.5 3.8 4.6 2.0 4.0	0.2 or pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 12.2 14.1 12.2 11.3 12.8 14.1 15.9 17.5 18.8 19.8 11.5 19.8 11.5 19.7 11.7 10.0 10.2	37 48 29 28 34 36 27 35 28 28 28 28 28 35 28 35 28 34 36 27 35 28 28 28 34 36 27 37 38 28 28 38 38 28 38 38 38 38 38 38 38 38 38 3	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/8/2018 2/6/2018 4/3/2018 6/5/2018 6/5/2018 6/5/2018 6/5/2018 6/5/2018 1/1/2018 1/1/2018 1/1/2018 1/1/2018	TOTAL VOLUME RE 35.2 37.2 35.3 34.3 35.3 35.0 35.3 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.3 5.0 5.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.2 3.9 4.5 3.8 4.6 2.0 4.0 3.7	OM HARW-4 (GALLONS)	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 9.8 12.8 9.8 11.5 9.7 11.7 5.0 10.2 9.4	92 28 35 29 28 34 36 27 35 28 28 28 28 29 34 29 34 29 34 22 34 36 36 27 35 28 28 28 35 28 36 27 37 38 38 28 28 38 38 38 38 38 38 38 38 38 38 38 38 38	DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/2017 6/5/2017 7/11/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/8/2018 2/6/2018 4/3/2018 4/3/2018 6/5/2018 6/5/2018 9/10/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018 1/9/2018	707AL VOLUME RE 35.2 37.2 35.3 34.3 35.3 35.3 34.6 35.6 36.0 34.8 35.3 36.3 36.3 35.3 36.3 36.3 36.3 36.4 35.8 36.6 36.6 36.7 38.3 36.3 36.3 36.3 36.3 36.3 36.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.0 5.7 4.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.5 5.0 4.0 5.2 3.8 4.6 2.0 4.0 4.0 3.7 2.2	0.2 r pumping not completed 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 14.1 12.2 14.1 12.2 15.3 13.7 12.8 14.1 12.9 14.1 15.9 16.1 17.5 18.8 19.8 19.8 11.5 19.7 11.7 19.9 10.2 10.2 10.2 10.2	92 28 34 36 27 35 28 28 28 28 28 28 28 29 35 28 29 34 29 34 22 34 36 27 37 38 38 38 38 38 38 38 38 38 38 38 38 38	DMT 4 DMT 5 DMT 4 DMT 5 DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/2017 6/5/2017 7/11/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/6/2018 4/3/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018 8/17/2018 8/17/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	35.2 37.2 35.3 34.3 34.3 35.3 35.3 35.3 36.0 35.6 35.6 35.6 35.6 35.6 35.7 36.3 36.1 36.3 36.3 36.3 36.3 36.3 36.3	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.5 5.0 5.5 4.0 5.5 5.0 4.0 5.2 3.9 4.5 3.8 4.6 2.0 4.0 4.0 3.7 2.2 3.7 2.0 3.6	0.2 or pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 12.2 14.1 11.3 leted (10 event requirement met) due to adverse weather conditions 9.8 11.3 9.8 11.5 9.7 11.7 5.0 10.2 9.4 5.4	37 48 29 28 34 36 27 35 28 28 28 28 35 28 34 29 34 29 34 29 34 21 35 22 34 36 37 38 38 38 38 38 38 38 38 38 38	DMT 4 DMT 5 DMT 4 DMT 4	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 5/2/2017 6/5/2/2017 6/5/2/2017 7/11/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 12/4/2017 12/4/2018 4/3/2018 6/5/2018 4/3/2018 6/5/2018 7/9/2018 9/10/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018 1/15/2018	TOTAL VOLUME RE	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.7 4.7 4.3 DNAPL gauging of 5.7 5.7 4.7 4.3 DNAPL pumpin DNAPL gauging of 5.5 5.0 4.0 4.0 4.0 4.0 4.0 4.0 3.7 2.2 3.7	OM HARW-4 (GALLONS)	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2.2 11.3 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9 12.8 9.8 11.5 9.7 11.7 5.0 10.2 10.2 9.4 5.4 9.4	92 28 36 27 35 28 28 28 28 28 28 29 35 28 29 34 29 34 29 34 21 35 22	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 1	double diaphragm pump
HARW-5	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017 3/6/2017 4/4/2017 6/5/2017 6/5/2017 7/11/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/6/2018 4/3/2018 4/3/2018 6/5/2018 6/5/2018 7/9/2018 8/17/2018 8/17/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	35.2 37.2 35.3 34.3 34.3 35.3 35.3 35.3 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36	5.1 DNAPL gauging of 3.1 5.0 6.0 5.0 5.0 5.0 5.7 4.7 4.7 4.3 DNAPL gauging of 5.5 5.0 5.5 5.0 5.5 4.0 5.5 5.0 4.0 5.2 3.9 4.5 3.8 4.6 2.0 4.0 4.0 3.7 2.2 3.7 2.0 3.6	0.2 r pumping not completed 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	800.2 14.1 due to adverse weather conditions 8.7 12.9 15.7 12.8 13.7 12.8 14.1 12.2 14.1 12.2 14.1 12.2 11.3 leted (10 event requirement met) due to adverse weather conditions 3.9 12.8 9.8 11.5 9.7 11.7 5.0 10.2 10.2 9.4 5.4 9.4 5.0 9.1	37 48 29 28 34 36 27 35 28 28 28 28 35 28 34 29 34 29 34 29 34 21 35 22 34 36 37 38 38 38 38 38 38 38 38 38 38	DMT 4 DMT 5 DMT 4 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 - 12/10/2016	Deptil to Floduct (it)	rie-pullipling (it)	rost-pullipling (it)	0.0	weasurement Readings	Useu	Recovery Procedure Osed
HAKW-0	1/16/2017	40.0	0.8	-	0.0	37	DMT ⁴	-
	2/20/2017	40.0		r pumping not completed	due to adverse weather conditions		-	-
	3/6/2017	40.0	0.8	-	-	49	DMT ⁴	-
	4/3/2017	40.1	0.8	-	-	28	DMT ⁴	-
	5/1/2017	40.1	0.7	٠	-	28	DMT ⁴	•
	6/5/2017	40.3	0.5	-	-	35	DMT ⁴	-
	7/10/2017	40.2	0.6		-	35	DMT ⁴	-
	8/7/2017	40.3	0.5	-	-	28	DMT ⁴	-
	9/11/2017	40.0	0.8	-	-	35	DMT ⁴	-
	10/9/2017	39.9	0.9		-	28	DMT ⁴	-
	11/6/2017 12/4/2017	39.8	1.0	not required to be some	leted (10 event requirement met)	28	DMT ⁴	-
	1/8/2018		DNAPL pulliping	r numning not completed	due to adverse weather conditions		-	-
	2/5/2018	40.0	0.8	-	-	91	DMT ⁴	
	3/5/2018	40.7	0.1		-	28	DMT ⁴	
	4/2/2018	40.1	0.8		-	28	DMT ⁴	-
	5/7/2018	40.1	0.7		-	35	DMT ⁴	-
	6/5/2018	40.1	0.8	-	-	29	DMT ⁴	-
	7/9/2018	40.1	0.7	-	-	34	DMT ⁴	-
	8/6/2018	39.9	0.9	-	-	28	DMT ⁴	-
	9/10/2018	40.1	0.8	-	-	35	DMT ⁴	-
	10/1/2018	40.1	0.8		-	21	DMT ⁴	-
	11/5/2018	40.7	0.1	-	-	35	DMT ⁴	-
	12/10/2018	40.1	0.7		-	35	DMT ⁴	-
	1/14/2019	40.1	0.7	-	-	35	DMT ⁴	-
	2/4/2019 3/11/2019	40.1 40.4	0.7	-	-	21 35	DMT ⁴	-
	4/1/2019	40.4	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	-
				OM HARW-6 (GALLONS)				
		TOTAL VOLUME RE	COVERED TO DATE FRO	JIVI HARW-0 (GALLONS)	0.0			
HARW-7	Cumulative 7/18/2011 - 12/10/2016						-	
HARW-7	Cumulative 7/18/2011 - 12/10/2016	-	-		482.1	- 37	- DMT ⁴	- double diaphragm pump
HARW-7	Cumulative 7/18/2011 - 12/10/2016 1/17/2017 2/20/2017		- 4.8	- 0.1	482.1 12.2	37	DMT ⁴	double diaphragm pump
HARW-7	1/17/2017	-	- 4.8	- 0.1	482.1			double diaphragm pump - -
HARW-7	1/17/2017 2/20/2017	37.3 41.0 40.5	- 4.8 DNAPL gauging o 1.0 1.5	- 0.1 r pumping not completed -	482.1 12.2 due to adverse weather conditions	37 48 28	DMT ⁴ - DMT ⁴ DMT ⁴	-
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017	37.3 41.0 40.5 38.0	4.8 DNAPL gauging of 1.0 1.5 4.0	0.1 r pumping not completed 0.2	482.1 12.2 due to adverse weather conditions - 10.0	37 48 28 28	DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴	-
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017	37.3 41.0 40.5 38.0 40.5	4.8 DNAPL gauging of 1.0 1.5 4.0	0.1 r pumping not completed 0.2	482.1 12.2 due to adverse weather conditions - - 10.0	37 48 28 28 35	DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - double diaphragm pump -
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017	37.3 41.0 40.5 38.0 40.5 40.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0	0.1 r pumping not completed 0.2 - 0.2	482.1 12.2 due to adverse weather conditions - 10.0	37 48 28 28 35 35	DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	-
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/1/2017 8/7/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5	r pumping not completed 0.2 - 0.2 -	482.1 12.2 due to adverse weather conditions 10.0 - 4.8	37 48 28 28 35 35 35	DMT 4	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3	4.8 DNAPL gauging o 1.0 1.5 4.0 1.5 2.0 0.5	0.1 r pumping not completed 0.2 - 0.2	482.1 12.2 due to adverse weather conditions - 10.0 - 4.8	37 48 28 28 35 35 35 28 35	DMT ⁴	- - - double diaphragm pump -
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.0 40.3	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8	0.1 r pumping not completed 0.2 - 0.2	482.1 12.2 due to adverse weather conditions - 10.0 - 4.8	37 48 28 28 35 35 36 28 35 28	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3	r pumping not completed 0.2 - 0.2 - 0.2 - 0.0	482.1 12.2 due to adverse weather conditions - - 10.0 - 4.8 - - - 11.3	37 48 28 28 35 35 35 28 35	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.0 40.3	. 4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 4.3 DNAPL pumpin	r pumping not completed - 0.2 - 0.2 - 0.2 - 0.2 - 0.3 - 0.2 - 0.0 - 0.0 - 0.0 gnot required to be comp	482.1 12.2 due to adverse weather conditions - 10.0 - 4.8 11.3 leted (10 event requirement met)	37 48 28 28 35 35 36 28 35 28	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.0 40.3	. 4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 4.3 DNAPL pumpin	r pumping not completed - 0.2 - 0.2 - 0.2 - 0.2 - 0.3 - 0.2 - 0.0 - 0.0 - 0.0 gnot required to be comp	482.1 12.2 due to adverse weather conditions - - 10.0 - 4.8 - - - 11.3	37 48 28 28 35 35 36 28 35 28	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 1/8/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 37.7	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumping of DNAPL gauging of	r pumping not completed - 0.2 - 0.2 - 0.2 - 0.2 - 0.3 - 0.2 - 0.0 - 0.0 - 0.0 gnot required to be comp	482.1 12.2 due to adverse weather conditions - 10.0 - 4.8 11.3 leted (10 event requirement met)	37 48 28 28 35 35 28 35 28 35 28	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 1/8/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumping DNAPL gauging of 2.7	D. O.1 r pumping not completed	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions	37 48 28 28 35 35 28 35 28 28 28	DMT 4	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/17/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 3/6/2018 3/6/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7	D. O.1 r pumping not completed	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions	37 48 28 28 35 35 35 28 35 28 91	DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 0.5 1.8 1.8 4.3 DNAPL gauging of 2.7 3.5 1.0 2.0 0.1	0.1 o.1 o.2	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3	37 48 28 28 35 35 28 35 28 35 28 27 36 28	DMT ⁴	double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 1/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018 7/9/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7 3.5 1.0 2.0 0.1	0.1 r pumping not completed 0.2 - 0.2 - 0.2 - 0.0 gnot required to be compreprieted to be compressed to	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0	37 48 28 28 35 35 28 35 28 28 27 36 28 34	DMT 4	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 37.7 39.3 38.5 41.0 40.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7 3.5 1.0 0.1 0.9 2.6	0.1 r pumping not completed 0.2 - 0.2 - 0.2 - 0.2 - 0.0 grow required to be comp r pumping not completed - 0.3 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0	37 48 28 28 35 35 35 28 36 28 28 28 31 31 31 32 32 33 34 29	DMT 4	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018 8/7/2018 8/7/2018	37.3 41.0 40.5 40.5 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 0.5 1.8 1.8 4.3 DNAPL gauging of 2.7 3.5 1.0 0.0 0.1 1.0 0.1 0.0 0.1 0.0 0.1	O.1 r pumping not completed 0.2 - 0.2 - 0.2 - 0.2 - 0.0 port required to be completed - 0.3 - 0.0 not required to be completed - 0.3 - 0.1 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 6.5	37 48 28 28 35 35 35 28 35 28 37 28 28 28 28 28 28 28 29 27 36 28 34 29 34	DMT ⁴	double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 12/4/2017 18/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018 7/9/2018 8/7/2018 9/10/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1 40.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin, DNAPL gauging of 2.7 3.5 1.0 2.0 0.1 2.0 0.1 2.0 2.0 2.6 1.0 2.0	0.1 r pumping not completed 0.2 - 0.2 - 0.2 - 0.0 gnot required to be compreprieted to be compressed to	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0	37 48 28 28 35 35 35 28 35 28 28 28 36 28 29 31 29 27 36 28 34 29 34	DMT 4	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 3/6/2018 4/2/2018 5/8/2018 6/5/2018 9/10/2018 9/10/2018 9/10/2018 11/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 37.7 39.3 38.5 41.0 40.0 41.9 41.1 40.1	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7 3.5 1.0 2.0 0.1 0.9 2.6 1.0 2.0 1.2	O.1 r pumping not completed 0.2 - 0.2 - 0.2 - 0.3 gnot required to be completed - 0.3 - 0.1 - 0.1 - 0.1 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 5.0	37 48 28 28 35 35 35 28 35 28 37 28 28 28 28 28 29 27 36 28 34 29 34 22 34	DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 6 DMT 6 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9 DMT 9 DMT 9 DMT 9 DMT 1	double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 6/5/2017 7/10/2017 6/1/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018 6/5/2018 8/7/2018 9/10/2018 10/2/2018 10/2/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1 40.0 40.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7 3.5 1.0 2.0 0.1 0.9 2.6 1.0 2.0 1.2 2.0	o.1 0.1 r pumping not completed - 0.2 - 0.2 - 0.2 - 0.3 - 0.0 gnot required to be compreded - 0.3 - 0.1 - 0.1 - 0.1 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 - 6.5 - 5.0	37 48 28 28 35 35 35 28 35 28 28 28 28 28 29 27 36 28 34 29 34 22 34 36	DMT 4 DMT 5 DMT 4	double diaphragm pump
HARW-7	1/17/2017 2/2017 2/2017 3/6/2017 4/3/2017 4/3/2017 5/1/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 1/8/2018 2/5/2018 4/2/2018 5/8/2018 6/5/2018 6/5/2018 8/7/2018 8/7/2018 8/7/2018 1/1/2018 1/1/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 41.1 40.0 41.1	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumping of 1.8 2.7 3.5 1.0 2.0 0.1 0.9 2.6 1.0 2.0 1.2 2.0 0.9	pumping not completed - 0.2 - 0.2 - 0.2 - 0.0 g not required to be compropumping not completed 0.0 0.0 g not required to be compropumping not completed 0.1 - 0.1 - 0.1 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 - 6.5 - 5.0 - 5.0 5.0	37 48 28 28 35 35 28 35 28 36 28 29 27 36 28 34 29 34 22 34 36 36 34	DMT 4 DMT 5 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 4/3/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 3/6/2018 4/2/2018 5/6/2018 6/5/2018 6/5/2018 8/7/2018 9/10/2018 11/1/2018 11/1/2018	37.3 41.0 40.5 40.5 40.0 40.5 40.0 41.5 40.3 37.7 39.3 38.5 41.0 40.0 41.1 40.1	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 0.5 1.8 1.8 4.3 DNAPL gauging of 2.7 3.5 1.0 2.0 0.1 1.0 2.0 0.1 0.9 2.6 1.0 2.0 1.2 2.0 0.9 1.2	o.1 o.1 r pumping not completed o.2 o.2 o.2 o.2 o.3 o.3 o.3 o.3 o.4 o.5 o.0	#82.1 12.2 due to adverse weather conditions	37 48 28 28 35 35 35 28 35 28 35 28 36 28 28 29 31 30 31 29 34 22 34 36 34 31 31 31 31 31 31 31 31 31 31 31 31 31	DMT ⁴ DMT 4 DMT 5 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 1 DMT 9	double diaphragm pump
HARW-7	1/17/2017 2/2017 3/6/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2018 2/5/2018 3/6/2018 4/2/2018 5/8/2018 6/5/2018 7/9/2018 8/7/2018 9/10/2018 10/2/2018 11/5/2018 11/5/2018 11/2/2018 11/2/2018 3/7/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1 40.0 40.0 40.0 40.0	4.8 DNAPL gauging of 1.0 1.5 4.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL pumpin DNAPL gauging of 2.7 3.5 1.0 2.0 0.1 1.0 2.0 1.1 0.9 2.6 1.0 2.0 1.2 2.0 0.9 1.2 1.2 1.7	r pumping not completed - 0.2 - 0.2 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 g not required to be completed - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 6.5 5.0	37 48 28 28 35 35 35 28 35 28 28 28 34 29 34 22 34 36 34 21 35	DMT 4 DMT 5 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 8 DMT 8 DMT 9	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 11/6/2018 2/5/2018 3/6/2018 4/2/2018 6/5/2018 7/9/2018 8/7/2018 8/7/2018 9/10/2018 10/2/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 41.1 39.4 41.1 40.0 40.0 41.1 40.0 40.0 41.1 39.4 41.1 40.0		0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 5.0 6.5 5.0 6.5 6.6	37 48 28 28 35 35 35 28 35 28 28 28 29 27 36 28 34 29 34 22 34 36 34 21	DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 6 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 4/2/2018 5/5/2018 6/5/2018 6/5/2018 8/7/2018 8/7/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1 40.8 40.0 40.8 40.0	1.0 1.5 4.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL gauging of control of the contr	o.1 o.1 o.2 o.2 o.2 o.2 o.3 o.0	### ### ##############################	37 48 28 28 35 35 35 28 35 28 36 37 28 28 28 28 28 28 29 27 36 28 34 29 34 22 34 36 36 34 21 35	DMT ⁴	double diaphragm pump double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 12/4/2017 11/6/2018 2/5/2018 3/6/2018 4/2/2018 6/5/2018 7/9/2018 8/7/2018 8/7/2018 9/10/2018 10/2/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 41.5 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 41.1 39.4 41.1 40.0 40.0 41.1 40.0 40.0 41.1 39.4 41.1 40.0		0.1	482.1 12.2 due to adverse weather conditions 10.0 - 4.8 11.3 leted (10 event requirement met) due to adverse weather conditions - 8.3 - 5.0 5.0 6.5 5.0 6.5 6.6	37 48 28 28 35 35 35 28 35 28 28 28 29 27 36 28 34 29 34 22 34 36 34 21	DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 4 DMT 6 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 6 DMT 6 DMT 7 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 7 DMT 6 DMT 7 DMT 6 DMT 7 DMT 7 DMT 7 DMT 8 DMT 9	double diaphragm pump
HARW-7	1/17/2017 2/20/2017 3/6/2017 4/3/2017 4/3/2017 4/3/2017 6/5/2017 6/5/2017 7/10/2017 8/7/2017 9/11/2017 10/9/2017 11/6/2017 11/6/2017 11/6/2017 11/6/2017 11/8/2018 2/5/2018 4/2/2018 4/2/2018 5/5/2018 6/5/2018 6/5/2018 8/7/2018 8/7/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018	37.3 41.0 40.5 38.0 40.5 40.0 40.5 40.3 40.3 40.3 37.7 39.3 38.5 41.0 40.0 41.1 39.4 41.1 41.0 40.0	1.0 1.5 4.0 1.5 4.0 1.5 2.0 0.5 1.8 1.8 4.3 DNAPL gauging of control of the contr	0.1	### ### ##############################	37 48 28 28 35 35 35 28 35 28 36 37 28 28 28 28 28 28 29 27 36 28 34 29 34 22 34 36 36 34 21 35	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 - 12/10/2016	-		-	18.0	-	-	-
	1/18/2017	40.8	2.2	0.2	5.2	37	DMT ⁴	-
	2/20/2017	·	DNAPL gauging of	r pumping not completed	due to adverse weather conditions		-	-
	3/6/2017	41.7	1.3	-	-	47	DMT ⁴	-
	4/3/2017	42.5	0.5	-	-	28	DMT ⁴	-
	5/1/2017	42.3	0.7	-	-	28	DMT ⁴	-
	6/5/2017	42.3	0.7	-	-	35	DMT ⁴	-
	7/10/2017	42.3	0.7	-	-	35	DMT ⁴	-
	8/7/2017	42.1	0.9	-	-	28	DMT ⁴	-
	9/11/2017	41.7	1.3		-	35	DMT ⁴	-
	10/9/2017	42.2	0.8		-	28	DMT ⁴	-
	11/6/2017	41.8	1.2		-	28	DMT ⁴	-
	12/4/2017		DNAPL pumpin	not required to be comp	leted (10 event requirement met)		-	-
	1/8/2018				due to adverse weather conditions		-	-
	2/5/2018	41.7	1.3		-	91	DMT ⁴	-
	3/5/2018	41.3	1.7	-	-	28	DMT ⁴	-
	4/2/2018	41.1	1.9	-	-	28	DMT ⁴	-
	5/8/2018	41.0	2.0	0.6	3.7	36	DMT ⁴	double diaphragm pump
	6/5/2018	42.5	0.5		-	28	DMT ⁴	-
	7/9/2018	42.5	0.5		-	34	DMT ⁴	-
	8/6/2018	42.3	0.7		-	28	DMT ⁴	-
	9/10/2018	42.1	0.9		-	35	DMT ⁴	-
	10/1/2018	42.0	1.0		_	21	DMT ⁴	-
	11/5/2018	42.1	0.9		-	35	DMT ⁴	-
	12/10/2018	41.7	1.3		-	35	DMT ⁴	-
	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	0.0	-	34	DMT ⁴	=
	6/3/2019	42.2	0.8		-	28	DMT ⁴	-
		TOTAL VOLUME REC	COVERED TO DATE FRO	OM HARW-8 (GALLONS	31.5			

TOTAL VOLUME RECOVERED TO DATE FROM ALL WELLS (GALLONS)

2792.3

Notes:

MW-12

Depth to Top of Screen: 33 ft Depth to Top of Screen: 28.6 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

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

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

HARW-7

HARW-3

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

HARW-4 Angle from Vertical: 24.5° Vertical Depth to Top of Screen: 28.7 ft

Vertical Depth to Bottom: 41 ft

HARW-8

Depth to Top of Screen: 28.5 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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Notative 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.