Atlantic Richfield Company

Paul G. Johnson

Liability Manager

Remediation Management 30 S. Wacker Drive Chicago, IL 60606 Phone: (331) 236-1415 Mobile: (630) 731-4463 E-Mail: paul.johnson4@bp.com

May 3, 2023

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, April 2023 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 April 2023 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 April 1, 2023, through April 30, 2023.

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. JR

Enclosure



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

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

File

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

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

Melissa Doroski, New York State Department of Health Jacquelyn Nealon, New York State Department of Health Phoebe Gittlelson, NYSDEC, Office of General Counsel

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

Village Manager Mary Beth Murphy, Hastings-On-Hudson

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

Rachel Noe, Westchester County

Jim Lucari, BP

Michael Daneker, Arnold & Porter

Martha Gopal, Sovereign Consulting Inc.

FORMER ANACONDA WIRE AND CABLE PLANT SITE (a.k.a. HARBOR AT HASTINGS SITE) OU1 NYSDEC SITE 360022 MONTHLY PROGRESS REPORT 215

PREPARED BY: Atlantic Richfield Company

Paul Johnson

REPORTING PERIOD: April 1, 2023 through April 30, 2023

1. PROGRESS MADE THIS REPORTING PERIOD:

- DNAPL gauging and recovery was performed on April 3, 2023, and April 4, 2023.
 HARW-5 was gauged and pumped as required by the August 2011 Design Basis Memorandum.
- Drone photography of site completed week of April 21, 2023.
- Progress continued on these on-going design-related activities:
 - o Development of shoreline concepts.
 - Old Marina / Kinnally Cove stability evaluation for dredging.
 - o OU-1 and OU-2 material handling evaluation.
 - o Design team has engaged West Chester County Department of Environmental Facilities regarding underground utilities.
 - o SPDES Permit Equivalent Application.
 - Other design elements.
 - o Biological Assessment / Not Likely to Adversely Affect Documentation and Essential Fish Habitat Reports (NMFS).
 - o Nationwide Permit 38 Pre-Construction Notification.
 - o Joint Permit Application.
 - o Draft Permit Matrix Comments received from NYSDEC December 12, 2022, final revision in progress.
 - o Water Quality Monitoring Plan Incorporating Karen Woodfield's comments in preparation for call with Manoara Begum.
 - TSCA Risk-Based Disposal Action Application Revisions to application in progress. USEPA TSCA call rescheduled for June 22, 2023.

2. UNANTICIPATED PROBLEM AREAS AND RECOMMENDED SOLUTIONS

• None this reporting period.

3. PROBLEMS RESOLVED

• None this reporting period.

4. DELIVERABLES SUBMITTED / RECEIVED

• April 6, 2023, Atlantic Richfield to NYSDEC: *Hastings March 2023 Monthly Progress Report*.

5. UPCOMING EVENTS / ACTIVITIES PLANNED

- Scheduling of subsequent gauging and recovery events will be dependent on the developing COVID-19 situation and AR will continue to communicate with NYSDEC regarding schedule. The tentative schedule is outlined below.
- The next three DNAPL gauging and recovery events are tentatively scheduled to occur the weeks of May 1, 2023, June 5, 2023, and August 7, 2023.
- Continue the Water Tower LNAPL IRM activities, as allowable, in accordance with the IRM Work Plan (Fluor Daniel GTI, December 1997), Fluor Daniel GTI correspondence to the NYSDEC dated May 18, 1998, and Atlantic Richfield correspondence with the NYSDEC on September 2, 2010. The next LNAPL IRM event is tentatively scheduled to occur the week of August 7, 2023, in accordance with the schedule modification request, from monthly to quarterly, sent by Atlantic Richfield to NYSDEC on June 4, 2012, and the approval letter received from NYSDEC dated April 2, 2013.

6. KEY STAFFING

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

7. PERCENTAGE COMPLETE

- DNAPL gauging and recovery ongoing
- LNAPL IRM ongoing

8. <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

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

TABLE I
APRIL DNAPL PUMPING SUMMARY (WEEK OF 4/3/2023)
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 | 4/3/2023 ¹ | 0 | 0 | 0 | NA** | NA** | NA** | NA** | NA** | |
| HARW-2 | 4/3/2023 ² | 0 | 16.0 | 16.0 | | | NA** | NA** | 3.4 | |
| TIAIVV-Z | NA** 3 | Ů | | | NA** | NA** | IVA | | 3.4 | |
| HARW-3 | 4/3/2023 2 | 16.5 | 8.0 | 7.7 | | | NA** | NA** | NA** | 3.7 |
| TIAKW 5 | NA** 3 | 10.5 | | | NA** | NA** | | | | |
| HARW-4 | 4/3/2023 ² | 24.5 | 8.0 | 7.3 | | | NA** | NA** | 3.5 | |
| TIZAKW 4 | NA** 3 | 24.5 | | | NA** | NA** | - NA | IVA . | 3.3 | |
| HARW-5 | 4/3/2023 ² | 23.5 | 24.0 | 22.0 | | | 31.5 | 5.2 | 4.3 | |
| HARW-5 | 4/4/2023 ³ | 25.5 | | | 0.0 | 0.0 | 31.5 | | | |
| LIADIA/ C | 4/3/2023 ² | 14.0 | 5.0 | 4.9 | | | | 4.2 | | |
| HARW-6 | NA** 3 | 14.0 | | | NA** | NA** | NA** | NA** | 4.2 | |
| 114814/7 | 4/3/2023 ² | | 12.0 | 12.0 | | | A1A ## | A1 A * * | 2.7 | |
| HARW-7 | NA** 3 | 0 | | | NA** | NA** | NA** | NA** | 3.7 | |
| HARW-8 | 4/3/2023 ² | 0 | 11.0 | 11.0 | | | NA** | NA** | 3.8 | |
| HANVV-0 | NA** 3 | | | | NA** | NA** | INA | INA | 5.0 | |
| HAOW-12A | 4/3/2023 ² | 0 | 4.0 | 4.0 | | | NA** | NA** | 4.9 | |
| HAOW-12A | NA** 3 | J | | | NA** | NA** | INA | INA | 4.9 | |

Total Gallons of DNAPL Removed:

5.2

Notes:

Apparent Height: refers to the distance between the DNAPL surface and the bottom of the well sump which includes all fluids (groundwater and DNAPL) in the matrix.

NA: Not Applicable

¹DNAPL not present, pumping not completed in this well

²Pre-pumping gauge date

³Post-pumping gauge date.

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

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

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

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

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

| | | | B d d d | Dundret Assessed | | | | |
|----------|----------------------------------|--|--|---|--|--|-----------------------|-------------------------|
| | Date | Depth to Product (ft) | Product Apparent Height - Pre-pumping (ft) | Product Apparent Height - Post-pumping (ft) | Approximate Volume of Product Recovered (gallons) ³ | Days Elapsed Between Measurement Readings | Measurement Tool Used | Recovery Procedure Used |
| MW-12 | Cumulative 10/9/2006 - 7/29/2010 | - 1 | - | - | 5.0 | - | - | - |
| | | | | | | | | |
| | | TOTAL VOLUME RE | COVERED TO DATE FR | OM MW-12 (GALLONS) | 5.0 | | | |
| HAOW-12A | Cumulative 3/2/2009 - 12/6/2021 | - | - | - | 49.7 | - | DMT ⁴ | - |
| | 1/3/2022 | | DNAPL p | umping not completed du | e to COVID-19 restrictions | | - | - |
| | 2/7/2022 | 43.0 | 0.6 | - | - | 35 | DMT ⁴ | - |
| | 3/7/2022 | 43.2 | 0.4 | - | - | 28 | DMT ⁴ | - |
| | 4/4/2022 | 43.1 | 0.5 | - | - | 28 | DMT ⁴ | - |
| | 5/2/2022 | 43.2 | 0.4 | - | - | 28 | DMT⁴ | - |
| | 6/7/2022 | 43.2 | 0.4 | - | - | 36 | DMT ⁴ | - |
| | 7/4/2022 | | DNAPL pur | ping not completed due to | o adverse weather conditions | | - | - |
| | 8/1/2022 | 43.1 | 0.5 | - | - | 55 | DMT⁴ | - |
| | 9/6/2022 | 43.0 | 0.6 | - | - | 36 | DMT⁴ | = |
| | 10/3/2022 | 42.6 | 1.0 | - | - | 27 | DMT ⁴ | - |
| | 11/7/2022 | 43.3 | 0.3 | - | - | 35 | DMT ⁴ | - |
| | 12/5/2022 | 43.4 | 0.2 | - | - | 28 | DMT⁴ | - |
| | 1/3/2023 | 43.4 | 0.3 | - | - | 29 | DMT ⁴ | - |
| | 2/6/2023 | 43.4 | 0.3 | - | - | 34 | DMT ⁴ | - |
| | 3/6/2023 | 43.3 | 0.3 | - | - | 28 | DMT ⁴ | - |
| | 4/3/2023 | 43.3 | 0.3 | - | - | 28 | DMT ⁴ | - |
| | | | | | | | | |
| | ТО | TAL VOLUME RECOVE | ERED TO DATE FROM I | HAOW-12A (GALLONS) | 49.7 | | | |
| HARW-1 | Cumulative 9/29/2010 - 12/6/2021 | - | - | - | 0.0 | | - | - |
| | 1/3/2022 | | DNAPL p | umping not completed du | e to COVID-19 restrictions | | - , | <u>-</u> |
| | 2/7/2022 | No product detected | 0.0 | - | - | 35 | DMT ⁴ | - |
| | 3/7/2022 | No product detected | 0.0 | - | - | 28 | DMT ⁴ | - |
| | 4/4/2022 | No product detected | 0.0 | - | - | 28 | DMT ⁴ | <u> </u> |
| | 5/2/2022 | No product detected | 0.0 | - | - | 28 | DMT ⁴ | - |
| | 6/7/2022 | No product detected | 0.0 | - | - | 36 | DMT ⁴ | <u>-</u> |
| | 7/4/2022 | | | | o adverse weather conditions | | - | - |
| | 8/1/2022 | No product detected | 0.0 | - | - | 55 | DMT ⁴ | <u> </u> |
| | 9/6/2022 | No product detected | 0.0 | - | - | 36 | | - |
| | 10/3/2022 | No product detected | 0.0 | - | - | 27 35 | DMT ⁴ | - |
| | 11/7/2022 | No product detected | 0.0 | - | - | 35 28 | DMT ⁴ | - |
| | 12/5/2022 1/3/2023 | No product detected No product detected | 0.0 | - | - | 28 | DMT ⁴ | - |
| | 2/6/2023 | No product detected No product detected | 0.0 | - | - | 34 | DMT ⁴ | <u> </u> |
| | 3/6/2023 | No product detected | 0.0 | - | - | 28 | DMT ⁴ | <u> </u> |
| | 4/3/2023 | No product detected | 0.0 | - | - | 28 | DMT ⁴ | <u> </u> |
| | 4/3/2023 | 140 product detected | 0.0 | - | - | 20 | DIVIT | <u> </u> |
| | | | OVERED TO DATE FRO | 1 | | | | |

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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 Use |
|--------|-----------------------------------|-----------------------|--|---|--|--|-----------------------|------------------------|
| IARW-2 | Cumulative 9/29/2010 - 12/6/2021 | - | - | - | 880.0 | | - | - |
| | 1/3/2022 | | DNAPL p | umping not completed du | ue to COVID-19 restrictions | | - | - |
| | 2/8/2022 | 37.8 | 2.3 | 0.33 | 5 | 36 | DMT⁴ | double diaphragm pump |
| | 3/7/2022 | 39.0 | 1.0 | - | - | 27 | DMT⁴ | - |
| | 4/4/2022 | 38.3 | 1.8 | - | - | 28 | DMT⁴ | - |
| | 5/3/2022 | 38.0 | 2.0 | 0.08 | 5 | 29 | DMT⁴ | double diaphragm pump |
| | 6/7/2022 | 39.3 | 0.8 | - | - | 35 | DMT ⁴ | - |
| | 7/4/2022 | | DNAPL pum | ping not completed due t | to adverse weather conditions | | - | - |
| | 8/1/2022 | 38.3 | 1.8 | - | - | 55 | DMT⁴ | - |
| | 9/7/2022 | 37.8 | 2.2 | 0.08 | 5.4 | 37 | DMT⁴ | double diaphragm pump |
| | 10/3/2022 | 39.8 | 0.3 | - | - | 26 | DMT ⁴ | - |
| | 11/7/2022 | 39.1 | 0.9 | - | - | 35 | DMT ⁴ | - |
| | 12/5/2022 | 38.8 | 1.2 | - | - | 28 | DMT ⁴ | - |
| | 1/3/2023 | 38.0 | 2.0 | 0.17 | 4.8 | 29 | DMT ⁴ | double diaphragm pump |
| | 2/6/2023 | 39.4 | 0.6 | - | - | 34 | DMT ⁴ | |
| | 3/6/2023 | 38.8 | 1.2 | - | - | 28 | DMT ⁴ | - |
| | 4/3/2023 | 38.7 | 1.3 | - | _ | 28 | DMT ⁴ | - |
| | | 77 | | | | | | |
| | | TOTAL VOLUME RECO | OVERED TO DATE FRO | M HARW-2 (GALLONS) | 900.2 | | | |
| ARW-3 | Cumulative 10/14/2010 - 12/6/2021 | - | - | - | 28.6 | - | - | - |
| | 1/3/2022 | · | DNAPL p | umping not completed du | ue to COVID-19 restrictions | | - | - |
| | 2/7/2022 | 38.4 | 0.6 | - | - | 35 | DMT ⁴ | - |
| | 3/7/2022 | 38.4 | 0.6 | - | - | 28 | DMT ⁴ | - |
| | 4/4/2022 | 38.5 | 0.5 | - | - | 28 | DMT ⁴ | _ |
| | 5/2/2022 | 38.8 | 0.2 | - | - | 28 | DMT ⁴ | - |
| | 6/7/2022 | 38.4 | 0.6 | _ | _ | 36 | DMT ⁴ | _ |
| | 7/4/2022 | 00.1 | DNAPL pum | | - | - | | |
| | 8/1/2022 | 38.4 | 0.6 | - | _ | 55 | DMT ⁴ | - |
| | 9/6/2022 | 38.5 | 0.5 | - | - | 36 | DMT ⁴ | - |
| | 10/3/2022 | 38.3 | 0.7 | - | _ | 27 | DMT ⁴ | _ |
| | 11/7/2022 | 38.4 | 0.6 | - | _ | 35 | DMT ⁴ | - |
| | 12/5/2022 | 38.3 | 0.7 | _ | _ | 28 | DMT ⁴ | _ |
| | 1/3/2023 | 38.5 | 0.5 | _ | | 29 | DMT ⁴ | - |
| | 2/6/2023 | 38.4 | 0.6 | - | - | 34 | DMT ⁴ | |
| | 3/6/2023 | 38.3 | 0.7 | - | - | 28 | DMT ⁴ | - |
| | 4/3/2023 | 38.3 | 0.7 | - | - | 28 | DMT ⁴ | - |
| | 41012023 | 30.3 | 0.7 | - | - | 20 | DIVIT | - |
| | | | | | | | | |

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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 - 12/6/2021 | - | - | - | 219.0 | - | - | - |
| | 1/3/2022 | | | umping not completed du | e to COVID-19 restrictions | | - | - |
| | 2/7/2022 | 38.2 | 0.8 | - | - | 35 | DMT ⁴ | - |
| | 3/7/2022 | 37.6 | 1.4 | - | - | 28 | DMT ⁴ | - |
| | 4/4/2022 | 37.5 | 1.5 | - | - | 28 | DMT ⁴ | - |
| | 5/2/2022 | 37.8 | 1.3 | - | - | 28 | DMT⁴ | - |
| | 6/7/2022 | 37.3 | 1.8 | - | - | 36 | DMT⁴ | - |
| | 7/4/2022 | | | ping not completed due t | o adverse weather conditions | | - | - |
| | 8/1/2022 | 37.4 | 1.6 | - | - | 55 | DMT ⁴ | - |
| | 9/6/2022 | 37.2 | 1.8 | - | - | 36 | DMT⁴ | - |
| | 10/3/2022 | 37.0 | 2.0 | 0.17 | 4.8 | 27 | DMT⁴ | double diaphragm pump |
| | 11/7/2022 | 38.0 | 1.0 | - | - | 35 | DMT⁴ | - |
| | 12/5/2022 | 38.0 | 1.0 | - | - | 28 | DMT⁴ | - |
| | 1/3/2023 | 38.2 | 0.8 | - | - | 29 | DMT⁴ | - |
| | 2/6/2023 | 38.0 | 1.0 | - | - | 34 | DMT ⁴ | - |
| | 3/6/2023 | 38.6 | 0.4 | - | - | 28 | DMT⁴ | - |
| | 4/3/2023 | 38.3 | 0.7 | - | - | 28 | DMT⁴ | - |
| HARW-5 | Cumulative 7/18/2011 - 12/6/2021 | TOTAL VOLUME REC | OVERED TO DATE FRO | M HARW-4 (GALLONS) | 223.8 | | - | |
| HARW-J | 1/3/2022 | - | | - | | <u> </u> | | |
| | | | DNAPI n | umping not completed du | e to COVID-19 restrictions | | _ | - |
| | | 37.3 | | | e to COVID-19 restrictions | 36 | | • |
| | 2/8/2022 | 37.3 38.6 | 3.0 | 0.17 | 7.4 | 36 27 | DMT ⁴ | - double diaphragm pump |
| | 2/8/2022 3/7/2022 | 38.6 | 3.0 1.8 | 0.17 | 7.4 | 27 | DMT ⁴ | - double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 | 38.6 36.8 | 3.0 1.8 3.5 | 0.17 - 0.08 | 7.4 - 8.9 | 27 28 | DMT ⁴ DMT ⁴ DMT ⁴ | - double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 | 38.6 36.8 38.7 | 3.0 1.8 3.5 1.6 | 0.17 - 0.08 - | 7.4 - 8.9 | 27 28 28 | DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 | 38.6 36.8 | 3.0 1.8 3.5 1.6 3.6 | 0.17 - 0.08 - 0.17 | 7.4 - 8.9 - 8.9 | 27 28 | DMT ⁴ DMT ⁴ DMT ⁴ | - double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 | 38.6 36.8 38.7 36.7 | 3.0 1.8 3.5 1.6 3.6 DNAPL pur | 0.17 - 0.08 - 0.17 ping not completed due t | 7.4 - 8.9 - 8.9 o adverse weather conditions | 27 28 28 28 36 | DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump - double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 | 38.6 36.8 38.7 36.7 | 3.0 1.8 3.5 1.6 3.6 DNAPL pun | 0.17 - 0.08 - 0.17 ping not completed due to 0.08 | 7.4 - 8.9 - 8.9 o adverse weather conditions 9.4 | 27 28 28 28 36 | DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 | 38.6 36.8 38.7 36.7 36.6 38.2 | 3.0 1.8 3.5 1.6 3.6 DNAPL pur 3.7 2.1 | 0.17 - 0.08 - 0.17 ping not completed due t | 7.4 - 8.9 - 8.9 o adverse weather conditions | 27 28 28 28 36 55 37 | DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump - double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 | 3.0 1.8 3.5 1.6 3.6 DNAPL pum 3.7 2.1 | 0.17 - 0.08 - 0.17 ping not completed due to 0.08 0.08 | 7.4 - 8.9 - 8.9 o adverse weather conditions 9.4 5.2 | 27 28 28 36 55 37 26 | DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 | 3.0 1.8 3.5 1.6 3.6 DNAPL pum 3.7 2.1 1.3 3.3 | 0.17 - 0.08 - 0.17 ping not completed due to 0.08 0.08 - 0.25 | 7.4 | 27 28 28 36 55 37 26 36 | DMT ⁴ - DMT ⁴ DMT ⁴ | double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 11/8/2022 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5 | 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1 1.3 3.3 2.8 | 0.17 - 0.08 - 0.17 ping not completed due to 0.08 0.08 - 0.25 0.08 | 7.4 | 27 28 28 36 36 55 37 26 36 27 | DMT 4 | double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 11/8/2022 11/8/2022 12/5/2022 1/4/2023 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5 38.2 | 3.0 1.8 3.5 1.6 3.6 DNAPL pur 3.7 2.1 1.3 3.3 2.8 2.1 | 0.17 - 0.08 - 0.17 ping not completed due to 0.08 0.08 - 0.25 0.08 0.08 | 7.4 | 27 28 28 36 55 37 26 36 27 | DMT 4 | double diaphragm pump double diaphragm pump double diaphragm pump - double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 11/8/2023 2/6/2023 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5 38.2 38.3 | 3.0 1.8 3.5 1.6 3.6 DNAPL pum 3.7 2.1 1.3 3.3 2.8 2.1 2.0 | 0.17 - 0.08 - 0.17 ping not completed due t 0.08 0.08 - 0.25 0.08 0.08 0.08 | 7.4 | 27 28 28 36 55 37 26 36 27 30 | DMT 4 | double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 12/5/2022 1/4/2023 2/6/2023 3/6/2023 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5 38.2 38.3 | 3.0 1.8 3.5 1.6 3.6 DNAPL pum 3.7 2.1 1.3 3.3 2.8 2.1 2.0 2.0 | 0.17 - 0.08 - 0.17 ping not completed due t 0.08 - 0.25 0.08 0.08 0.08 0.08 0.08 | 7.4 | 27 28 28 36 55 37 26 36 27 30 33 28 | DMT 4 | double diaphragm pump double diaphragm pump double diaphragm pump |
| | 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 11/8/2023 2/6/2023 | 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5 38.2 38.3 | 3.0 1.8 3.5 1.6 3.6 DNAPL pum 3.7 2.1 1.3 3.3 2.8 2.1 2.0 | 0.17 - 0.08 - 0.17 ping not completed due t 0.08 0.08 - 0.25 0.08 0.08 0.08 | 7.4 | 27 28 28 36 55 37 26 36 27 30 | DMT 4 | double diaphragm pump double diaphragm pump double diaphragm pump |

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| | Date | Depth to Product (ft) | Product Apparent Height - Pre-pumping (ft) | Product Apparent Height - Post-pumping (ft) | Approximate Volume of Product Recovered (gallons) ³ | Days Elapsed Between Measurement Readings | Measurement Tool Used | Recovery Procedure Used |
|--------|----------------------------------|-----------------------|--|---|--|--|--------------------------|-------------------------|
| HARW-6 | Cumulative 7/19/2011 - 12/6/2021 | - | - | - | 0.0 | - | - | - |
| | 1/3/2022 | | | umping not completed du | ue to COVID-19 restrictions | | - | - |
| | 2/7/2022 | 40.2 | 0.6 | - | - | 35 | DMT ⁴ | - |
| | 3/7/2022 | 40.2 | 0.6 | - | - | 28 | DMT ⁴ | - |
| | 4/4/2022 | 40.1 | 0.7 | - | - | 28 | DMT ⁴ | - |
| | 5/2/2022 | 40.1 | 0.7 | - | - | 28 | DMT⁴ | - |
| | 6/7/2022 | 40.6 | 0.3 | - | - | 36 | DMT⁴ | <u> </u> |
| | 7/4/2022 | | | ping not completed due | o adverse weather conditions | | - | - |
| | 8/1/2022 | 40.6 | 0.3 | - | - | 55 | DMT ⁴ | - |
| | 9/6/2022 | 40.1 | 0.7 | - | - | 36 | DMT⁴ | - |
| | 10/3/2022 | 40.0 | 0.8 | - | - | 27 | DMT⁴ | <u> </u> |
| | 11/7/2022 | 40.2 | 0.6 | - | - | 35 | DMT⁴ | - |
| | 12/5/2022 | 40.7 | 0.1 | - | - | 28 | DMT⁴ | - |
| | 1/3/2023 | 40.6 | 0.2 | - | - | 29 | DMT⁴ | · |
| | 2/6/2023 | 40.6 | 0.2 | - | - | 34 | DMT⁴ | - |
| | 3/6/2023 | 40.5 | 0.3 | - | - | 28 | DMT⁴ | - |
| | 4/3/2023 | 40.4 | 0.4 | - | - | 28 | DMT ⁴ | - |
| | | TOTAL VOLUME RECO | OVERED TO DATE FRO | M HARW-6 (GALLONS) | 0.0 | | | |
| | | | | | | | | |
| HARW-7 | Cumulative 7/18/2011 - 12/6/2021 | - | - | - | 593.3 | - | - | • |
| | 1/3/2022 | | | umping not completed di | ue to COVID-19 restrictions | | - | - |
| | 2/7/2022 | 40.2 | 1.8 | - | - | 35 | DMT ⁴ | • |
| | 3/7/2022 | 39.6 | 2.4 | 0.1 | 6.1 | 28 | DMT ⁴ | double diaphragm pump |
| | 4/4/2022 | 41.7 | 0.3 | - | - | 28 | DMT ⁴ | = |
| | 5/2/2022 | 41.4 | 0.6 | - | - | 28 | DMT⁴ | - |
| | 6/7/2022 | 40.9 | 1.1 | - | - | 36 | DMT ⁴ | - |
| | 7/4/2022 | | DNAPL pum | - , | • | | | |
| | 8/1/2022 | 40.0 | 2.0 | 0.0 | 5.2 | 55 | DMT ⁴ | double diaphragm pump |
| | 9/6/2022 | 41.8 | 0.3 | - | - | 36 | DMT⁴ | - |
| | 10/3/2022 | 41.3 | 0.8 | - | - | 27 | DMT⁴ | <u> </u> |
| | 11/7/2022 | 41.1 | 0.9 | - | - | 35 | DMT⁴ | - |
| | 12/5/2022 | 40.9 | 1.1 | - | - | 28 | DMT⁴ | - |
| | 1/4/2023 | 40.0 | 2.0 | 0.3 | 4.4 | 30 | DMT⁴ | double diaphragm pump |
| | 2/6/2023 | 41.5 | 0.5 | - | - | 33 | DMT⁴ | i i |
| | 3/6/2023 | 41.1 | 0.9 | - | - | 28 | DMT ⁴ | - |
| | 4/3/2023 | 41.0 | 1.0 | - | - | 28 | DMT⁴ | - |
| | | | OVERED TO DATE FRO | | 609.0 | | | |

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| mulative 7/19/2011 - 12/6/2021 1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 | 42.2 41.9 41.8 41.7 | - DNAPL p 0.8 1.1 1.3 | umping not completed du | 41.3 e to COVID-19 restrictions | - 35 28 | - - DMT ⁴ DMT ⁴ | - - - |
|--|---|--|--|--|--|---|--|
| 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 | 41.9 41.8 41.7 | 0.8 1.1 1.3 | - | - | | DMT ⁴ | |
| 3/7/2022 4/4/2022 5/2/2022 6/7/2022 | 41.9 41.8 41.7 | 1.1 1.3 | - | - | | | _ |
| 4/4/2022 5/2/2022 6/7/2022 | 41.8 41.7 | 1.3 | | | 28 | DMT ⁴ | - |
| 5/2/2022 6/7/2022 | 41.7 | | - | | | DIVIT | - |
| 6/7/2022 | | 1.3 | | - | 28 | DMT ⁴ | - |
| | /17 | | - | - | 28 | DMT ⁴ | - |
| | 71.7 | 1.3 | - | - | 36 | DMT ⁴ | - |
| 7/4/2022 | | DNAPL pum | ping not completed due to | o adverse weather conditions | | - | - |
| 8/1/2022 | 41.5 | 1.5 | - | - | 55 | DMT ⁴ | - |
| 9/6/2022 | 41.4 | 1.6 | - | - | 36 | DMT ⁴ | - |
| 10/3/2022 | 41.3 | 1.8 | - | - | 27 | DMT ⁴ | - |
| 11/8/2022 | 41.0 | 2.0 | 0.5 | 3.9 | 36 | DMT ⁴ | double diaphragm pump |
| 12/5/2022 | 42.4 | 0.6 | - | - | 27 | DMT ⁴ | - |
| 1/3/2023 | 42.8 | 0.3 | - | - | 29 | DMT ⁴ | - |
| 2/6/2023 | 42.3 | 0.8 | - | - | 34 | DMT ⁴ | - |
| 3/6/2023 | 42.2 | 0.8 | - | - | 28 | DMT ⁴ | - |
| 4/3/2023 | 42.1 | 0.9 | - | - | 28 | DMT ⁴ | - |
| | TOTAL VOLUME RECO | OVERED TO DATE FRO | M HARW-8 (GALLONS) | 45.2 | | | |
| | 12/5/2022 1/3/2023 2/6/2023 3/6/2023 4/3/2023 | 12/5/2022 42.4 1/3/2023 42.8 2/6/2023 42.3 3/6/2023 42.2 4/3/2023 42.1 | 12/5/2022 42.4 0.6 1/3/2023 42.8 0.3 2/6/2023 42.3 0.8 3/6/2023 42.2 0.8 4/3/2023 42.1 0.9 | 12/5/2022 42.4 0.6 - 1/3/2023 42.8 0.3 - 2/6/2023 42.3 0.8 - 3/6/2023 42.2 0.8 - 4/3/2023 42.1 0.9 - | 12/5/2022 42.4 0.6 - - 1/3/2023 42.8 0.3 - - 2/6/2023 42.3 0.8 - - 3/6/2023 42.2 0.8 - - 4/3/2023 42.1 0.9 - - | 12/5/2022 42.4 0.6 - - 27 1/3/2023 42.8 0.3 - - 29 2/6/2023 42.3 0.8 - - 34 3/6/2023 42.2 0.8 - - 28 4/3/2023 42.1 0.9 - - 28 | 12/5/2022 42.4 0.6 - - 27 DMT ⁴ 1/3/2023 42.8 0.3 - - 29 DMT ⁴ 2/6/2023 42.3 0.8 - - 34 DMT ⁴ 3/6/2023 42.2 0.8 - - 28 DMT ⁴ 4/3/2023 42.1 0.9 - - 28 DMT ⁴ |

TOTAL VOLUME RECOVERED TO DATE FROM ALL WELLS (GALLONS)

3193.9

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

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

HARW-4

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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¹ 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.