



NOR-03123

November 10, 2023

Ms. Kristi Granzen
Project Manager, Remedial Bureau D, Section B
New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008
Contract Task Order WE13

Subject: November 2023 Reporting Period
Groundwater Discharge Monitoring Report RE-137 Area, Drainage Basin 17, Nassau County
Basin #305
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Ms. Granzen:

Tetra Tech is providing this monthly monitoring report for the groundwater discharge at the RE-137 Area Groundwater Treatment System (GWTS) located near the former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage. This report was prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit Equivalent dated February 16, 2022.

This document is the eighteenth monthly report for this system. Full time operation of the RE-137 GWTS began on May 2, 2022 at a nominal flowrate of 100 gallons per minute (GPM) and has been gradually increased since then. In October 2023, the system ran at a nominal flowrate of 360 GPM. During the month of October 2023, the RE-137 GWTS operated for approximately 597 hours (uptime of 80.3%) and extracted, treated, and discharged an approximate total of 13,236,652 gallons of groundwater. The reduced uptime in October 2023 was due to the granular activated carbon (GAC) filter media changeout for treatment vessel PV-310 completed on October 17, 2023 and a basin-high alarm caused by a rainstorm on a weekend early in the month.

As of October 31, 2023, the system has treated a total of 235,748,650 gallons of groundwater and removed 1,778 pounds of volatile organic compounds. The monthly samples were collected on October 5, 2023. As previously mentioned, a granular activated carbon (GAC) filter media changeout for treatment vessel PV-310 was completed on October 17, 2023. Routine operation and maintenance of the RE-137 GWTS is ongoing.

If you have any questions, please contact me at vin.varricchio@tetrattech.com or 631-962-0812.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Varricchio'.

Vincent Varricchio, P.G.
NWIRP Bethpage Facilities Manager

NOR-03123
Ms. Kristi Granzen
November 10, 2023 - Page 2

Attachment A: Discharge Monitoring Report, October 2023

cc: J. Pilewski, NYSDEC – Region 1
J. Pelton, NYSDEC
M. Travis, NYSDEC
G. Ennis, Nassau County Department of Public Works
S. Sokolowski, NAVFAC Mid-Atlantic
D. Brayack, Tetra Tech
R. Moore, Tetra Tech

ATTACHMENT A
DISCHARGE MONITORING REPORT
OCTOBER 2023

**Attachment A - Groundwater Sampling Results for Discharge Monitoring Report
RE-137 Area Groundwater Remediation
Groundwater Treatment System
Naval Weapons Industrial Reserve Plant – Bethpage, New York
October 2023**

| SPDES Parameters | | | October 2023 | | |
|---------------------------------------|--------------------------------|---------|--------------------------|-----------------------|---------------------------|
| Process Stream | Daily Treated Effluent Maximum | Units | RE-137 Influent (SP-100) | AOP Effluent (SP-201) | Treated Effluent (SP-303) |
| Well Depth | N/A | ft bgs | 750 | N/A | N/A |
| Screened Interval | N/A | ft bgs | 630-745 | N/A | N/A |
| Sampling Date | N/A | N/A | 10/5/2023 | | |
| System Flowrate | 400 | GPM | N/A | N/A | 366 |
| Total Flow | N/A | Gallons | N/A | N/A | 13,236,652 |
| pH | 4.0-8.5 | SU | NR | NR | 5.79 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | µg/L | 14.7 * | 16.4* | 3.6 * |
| 1,1,2-Trichloroethane | 1 | µg/L | 0.53 J* | 0.75 U* | 0.75 U* |
| 1,1-Dichloroethane | 5 | µg/L | 0.61 J* | 0.75 U* | 0.75 U* |
| 1,1-Dichloroethene | 5 | µg/L | 4.1 * | 0.75 U* | 0.75 U* |
| 1,4-Dioxane (via 8270 SIM) | 0.35 | µg/L | 4.5 | 0.2 U | 0.2 U |
| Bis(2-Ethylhexyl) phthalate | 7.5 | µg/L | N/A | N/A | 4.0 U |
| Carbon Tetrachloride | 5 | µg/L | 1.3 * | 1.5* | 0.75 U* |
| Chloroform | 7 | µg/L | 0.68 J* | 0.59 J* | 0.75 U* |
| cis-1,2-Dichloroethene | 5 | µg/L | 2.5 * | 0.75 U* | 0.75 U* |
| Tetrachloroethene | 5 | µg/L | 3.9 * | 0.75 U* | 0.75 U* |
| Trichloroethene | 5 | µg/L | 632 * | 0.75 U* | 0.75 U* |

Total VOCs Influent October 2023 (mg/L) 0.66
Total VOCs Treated October 2023 (pounds) 72
Total VOCs Treated (pounds) 1,778

µg/L - micrograms per liter.

AOP - Advanced Oxidation Process.

ft bgs - feet below ground surface.

GPM - gallons per minute.

J - Estimated result between laboratory method detection limit and reporting limit.

mg/L - milligrams per liter.

N/A - Not Applicable.

NR - Not recorded.

SPDES - State Pollutant Discharge Elimination System.

SU - Standard Units.

U - Not detected.

* - This sample was analyzed past the method specified 14 day holding time for the 8260 method.