NOR-03096

September 6, 2023

Mr. Jason Pelton
Section Chief, 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: August 2023 Reporting Period
Groundwater Discharge Monitoring Report RE-137 Area, Drainage Basin 17, Nassau County Basin #305
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Mr. Pelton:

Tetra Tech (Tt) 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 sixteenth 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 August 2023, the system ran at a nominal flowrate of 355 GPM. During the month of August 2023, the RE-137 GWTS operated for approximately 686 hours (uptime of 89.3%) and extracted, treated, and discharged an approximate total of 14,282,380 gallons of groundwater. The reduced uptime in August 2023 was due to a couple reasons. A power failure occurred early in the month and a basin-high alarm occurred during a rainstorm on a weekend later in the month.

As of August 31, 2023, the system has treated a total of 208,316,028 gallons of groundwater and removed 1,628 pounds of volatile organic compounds. The monthly samples were collected on August 3, 2023. Routine operation and maintenance of the RE-137 GWTS is ongoing.

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

Sincerely,

Vincent Varricchio

Vincent Varricchio, P.G.
NWIRP Bethpage Facilities Manager

Attachment A: Discharge Monitoring Report, August 2023

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cc: J. Pilewski, NYSDEC – Region 1
K. Granzen, 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
AUGUST 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
August 2023

SPDES Parameters			August 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	8/3/2023		
System Flowrate	400	GPM	N/A	N/A	355
Total Flow	N/A	Gallons	N/A	N/A	14,282,380
pH	4.0-8.5	SU	NR	NR	5.98
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	14.5	15.2	2.2
1,1,2-Trichloroethane	1	µg/L	0.48 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.59 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.9	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	4.7	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.00 U
Carbon Tetrachloride	5	µg/L	1.6	1.6	0.75 U
Chloroform	7	µg/L	0.7 J	0.58 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.2	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	3.8	0.75 U	0.75 U
Trichloroethene	5	µg/L	770	0.75 U	0.75 U

Total VOCs Influent August 2023 (mg/L)	0.80
Total VOCs Treated August 2023 (pounds)	95
Total VOCs Treated (pounds)	1,628

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.