



NOR-02977

November 7, 2022

Mr. Jason Pelton  
Section Chief, Remedial Bureau D, Section B  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, 12<sup>th</sup> Floor  
625 Broadway  
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008  
Contract Task Order WE13

Subject: October 2022 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 RE137 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 seventh 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 2022, the system ran at a nominal rate of 362 GPM, which is the capacity of the existing pump. During the month of October 2022, the RE-137 GWTS operated for approximately 706 hours (uptime of 96%) and extracted, treated, and discharged an approximate total of 15,486,337 gallons of groundwater. As of October 31<sup>st</sup>, 2022, the system has treated a total of 65,692,315 gallons of groundwater and removed 628 pounds of volatile organic compounds.

On October 20, 2022, the first Granulated Activated Carbon (GAC) vessel changeout occurred for vessel PV-310, and ongoing maintenance of the system continues. The monthly samples were also collected on October 20, 2022, prior to changeout of the GAC. As indicated in Attachment A, all constituents are within the SPDES parameters during this period.

If you have any questions, please contact me at [david.brayack@tetrattech.com](mailto:david.brayack@tetrattech.com) or 757-466-4909.

Sincerely,

*David Brayack*  
David Brayack, P.E.  
Project Manager

NOR-02977  
Mr. Jason Pelton  
November 7, 2022 - Page 2

Attachment A: Discharge Monitoring Report, October 2022

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  
E. Murphy, Tetra Tech  
V. Varricchio, NWIRP Bethpage Facilities Manager

**ATTACHMENT A  
DISCHARGE MONITORING REPORT  
OCTOBER 2022**

**Attachment A - Groundwater Sampling Results for Discharge Monitoring Report  
RE-137 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant – Bethpage, NY  
October 2022**

SPDES Parameters			October 2022		
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	10/20/2022		
System Flowrate	400	GPM	N/A	N/A	360
Total Flow	N/A	Gallons	N/A	N/A	15,486,337
pH	4.0-8.5	SU	NR	NR	5.92
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	14.3	13.8	0.56 J
1,1,2-Trichloroethane	1	ug/L	0.65 J	0.75 U	0.75 U
1,1-Dichloroethane	5	ug/L	0.69 J	0.75 U	0.75 U
1,1-Dichloroethene	5	ug/L	3.8	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	3.5	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	N/A	N/A	4.0 U
Carbon Tetrachloride	5	ug/L	1.9	1.6	0.75 U
Chloroform	7	ug/L	0.63 J	0.75 U	0.75 U
cis 1,2-Dichloroethene	5	ug/L	2.7	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	3.8	0.75 U	0.75 U
Trichloroethene	5	ug/L	1,040	0.75 U	0.75 U

Total VOCs Influent October (ppm)	1.07
Total VOCs Treated October (pounds)	138
Total VOCs Treated Cumulative (pounds)	628

Ft bgs- feet below ground surface.

GPM- gallons per minute.

D - Result is from a dilution of the sample

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

NR – Not recorded.

N/A – Not Applicable.

NS – Not sampled.

ug/L- micrograms per liter.

U - Not detected.