



NOR-02958

September 21, 2022

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 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 fifth 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. Through the first part of August 2022, the system ran at a nominal rate of 300 GPM. During this time, the two remaining granular activated carbon (GAC) were incorporated into the system, which allowed higher flowrates. On August 11, 2022, the system flow rate was increased to a nominal rate of 360 GPM. This flowrate was sustained through the remainder of the month. During the month of August 2022, the RE-137 GWTS operated for approximately 686 hours (uptime of 95%) and extracted, treated, and discharged a total of 12,843,889 gallons of groundwater. As of August 30th, 2022, the system has treated a total of 36,044,418 gallons of groundwater and removed 356 pounds of volatile organic compounds.

One set of water samples was collected during August 2022. 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 or 757-466-4909.

Sincerely,

David Brayack
David Brayack, P.E.
Project Manager

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Mr. Jason Pelton
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Attachment A: Discharge Monitoring Report, August 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
L. Donston, Tetra Tech
V. Varricchio, NWIRP Bethpage Facilities Manager

ATTACHMENT A
DISCHARGE MONITORING REPORT, AUGUST 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
August 2022**

SPDES Parameters			August 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	08/11/22		
System Flowrate	400	GPM	N/A	N/A	300
Total Flow	N/A	Gallons	N/A	N/A	12,843,889
pH	4.0-8.5	SU	NR	NR	5.95
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	14.9	15.1	0.75 U
1,1,2-Trichloroethane	1	ug/L	0.50 J	0.34 J	0.75 U
1,1-Dichloroethane	5	ug/L	0.62 J	0.34 J	0.75 U
1,1-Dichloroethene	5	ug/L	3.7	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	3.8	0.20 U	0.20 U
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	N/A	N/A	4.00 U
Carbon Tetrachloride	5	ug/L	1.6	1.6	0.75 U
Chloroform	7	ug/L	0.75 U	0.75 U	0.75 U
cis 1,2-Dichloroethene	5	ug/L	2.5	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	3.8	0.75 U	0.75 U
Trichloroethene	5	ug/L	854	1.30	0.75 U

Total VOCs Influent August (ppm) 0.88
Total VOCs Treated August (pounds) 95
Total VOCs Treated Cumulative (pounds) 356

Ft bgs- feet below ground surface.

GPM- gallons per minute.

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

ND – Not detected above laboratory method detection limit. Limit of Detection (LOD) given in parentheses.

NR – Not recorded.

N/A – Not Applicable.

NS – Not sampled.

ug/L- micrograms per liter.

U - Not detected.