



NOR-03053

May 19, 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: April 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 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 thirteenth 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 April 2023, the system ran at a nominal rate of 364 GPM, which is the capacity of the existing pump. During the month of April 2023, the RE-137 GWTS operated for approximately 607.2 hours (uptime of 90%) and extracted, treated, and discharged an approximate total of 13,256,961 gallons of groundwater.

As of April 30, 2023, the system has treated a total of 151,662,342 gallons of groundwater and removed 1,249 pounds of volatile organic compounds. On April 19, 2023, a Granulated Activated Carbon (GAC) vessel changeout occurred for vessel PV-310. The monthly samples were collected on April 13, 2023, prior to changeout of the GAC. The reduced system run time resulted from the changeout of the carbon and from an issue with the peroxide meter, which required maintenance and re-calibration. Tetra Tech is currently evaluating the performance and function of the transmissivity meter used to set power levels of the AOP system. Routine operation and maintenance of the system is ongoing.

If you have any questions, please contact me at david.brayack@tetratech.com or 757-466-4909.

Sincerely,

David Brayack
David Brayack, P.E.

NOR-03053
Mr. Jason Pelton
May 19, 2023 - Page 2

Project Manager

Attachment A: Discharge Monitoring Report, April 2023

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
V. Varricchio, NWIRP Bethpage Facilities Manager

ATTACHMENT A
DISCHARGE MONITORING REPORT
APRIL 2023

Attachment A - Groundwater Sampling Results for Discharge Monitoring Report
RE-137 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant – Bethpage, NY
April 2023

SPDES Parameters			April 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	4/13/2023		
System Flowrate	400	GPM	N/A	N/A	362
Total Flow	N/A	Gallons	N/A	N/A	13,256,961
pH	4.0-8.5	SU	NR	NR	5.90
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/L	14.9	15.1	2.3
1,1,2-Trichloroethane	1	ug/L	0.49 J	0.75 U	0.75 U
1,1-Dichloroethane	5	ug/L	0.64 J	0.75 U	0.75 U
1,1-Dichloroethene	5	ug/L	3.4	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	5.1 D	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	1.7	1.7	0.75 U
Chloroform	7	ug/L	0.77 J	0.61 J	0.75 U
cis-1,2-Dichloroethene	5	ug/L	2.4	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	3.4	0.75 U	0.75 U
Trichloroethene	5	ug/L	731	0.75 U	0.75 U

Total VOCs Influent April (ppm) 0.76
Total VOCs Treated April (pounds) 84
Total VOCs Treated (pounds) 1,249

ft bgs- feet below ground surface.

GPM- gallons per minute.

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

NR – Not recorded.

N/A – Not Applicable.

ug/L- micrograms per liter.

U - Not detected.

D - Dilution.