



TETRA TECH

NOR-02919

May 26, 2022

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

Reference: CLEAN Contract No. N6247016D9008
Contract Task Order WE13

Subject: April 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 New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit Equivalent dated February 16, 2022.

This document is the second monthly report for this system. Periodic operation of the RE-137 GWTS continued through April 2022, as the remaining control systems were brought online. During the month of April 2022, the RE-137 GWTS operated for approximately 100 hours. In April 2022, the system extracted, treated, and discharged a total of 652,693 gallons of water bringing the total treated discharge of the system to 860,693 gallons. The system was operated on April 6th and April 7th, for 3 days from April 20th to 22nd, and for 5 days from April 25th to 29th. One set of water samples was collected during each 5-day period of weekly operation. These are weeks 2 and 3 of the required 12 weekly sampling periods. As indicated in Attachment A, all constituents are within the SPDES parameters during this period. The system began full time operation on Monday May 2, 2022.

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

Sincerely

David Brayack, P.E.
Project Manager

Attachment A: Discharge Monitoring Report, April 2022

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Mr. Jason Pelton
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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
L. Donston, Tetra Tech
V. Varricchio, NWIRP Bethpage Facilities Management

ATTACHMENT A
DISCHARGE MONITORING REPORT, APRIL 2022

Discharge Monitoring Report - APRIL 2022
RE-137 Area Groundwater Treatment System
Naval Weapons Industrial Reserve Plant – Bethpage, NY

SPDES Parameters			Week 2: April 6th to 7th & April 20th to 22nd		
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	04/21/22		
System Flowrate	400	GPM	N/A	N/A	107
Total Flow ¹	N/A	Gallons	N/A	N/A	228,067
pH	4.0-8.5	SU	NR	NR	6.39
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	22.80	22.3	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	ND (0.75)	ND (0.75)	ND (0.75)
1,1-Dichloroethane	5	ug/L	0.97 J	0.48 J	ND (0.75)
1,1-Dichloroethene	5	ug/L	5.70	ND (0.75)	ND (0.75)
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	5.00	ND (0.20)	ND (0.20)
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	NS	NS	ND (4.00)
Carbon Tetrachloride	5	ug/L	1.80	1.90	ND (0.75)
Chloroform	7	ug/L	1.20	0.97 J	ND (0.75)
cis 1,2-Dichloroethene	5	ug/L	5.50	ND (0.75)	ND (0.75)
Tetrachloroethene	5	ug/L	4.80	ND (0.75)	ND (0.75)
Trichloroethene	5	ug/L	1510	1.90	ND (0.75)

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.

1. The total monthly flow for April is 652,693 gallons.

Discharge Monitoring Report - APRIL 2022
RE-137 Area Groundwater Treatment System
Naval Weapons Industrial Reserve Plant – Bethpage, NY

SPDES Parameters			Week 3: April 25 to 29, 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	04/28/22		
System Flowrate	400	GPM	N/A	N/A	100
Total Flow ¹	N/A	Gallons	N/A	N/A	424,585
pH	4.0-8.5	SU	NR	NR	5.98
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	23.7 J	22.00	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	ND (37.5)	0.38 J	ND (0.75)
1,1-Dichloroethane	5	ug/L	ND (37.5)	0.42 J	ND (0.75)
1,1-Dichloroethene	5	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	4.40	ND (0.20)	ND (0.20)
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	NS	NS	ND (2.40)
Carbon Tetrachloride	5	ug/L	ND (37.5)	1.90	ND (0.75)
Chloroform	7	ug/L	ND (37.5)	0.91 J	ND (0.75)
cis 1,2-Dichloroethene	5	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
Tetrachloroethene	5	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
Trichloroethene	5	ug/L	1660	0.73 J	ND (0.75)

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.

1. The total monthly flow for April is 652,693 gallons.