



NOR-02928

June 24, 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: May 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 third monthly report for this system. Full time operation of the RE-137 GWTS began on May 2 and continued through May 31, 2022 as the remaining control systems were brought online. The system experienced intermittent periodic shutdowns for routine operation and maintenance activities. During the month of May 2022, the RE-137 GWTS operated for approximately 598 hours and extracted, treated, and discharged a total of 3,557,316 gallons of water bringing the total treated discharge of the system to 4,418,009 gallons. One set of water samples was collected during each period of weekly operation. These are weeks 4 through 7 of the required 12 weekly sampling periods. 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,

A handwritten signature in cursive script that reads 'David Brayack'.

David Brayack, P.E.
Project Manager

Attachment A: Discharge Monitoring Report, May 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, MAY 2022

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

SPDES Parameters			Week 4: May 2 to 9		
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	05/06/22		
System Flowrate	400	GPM	N/A	N/A	100
Total Flow ¹	N/A	Gallons	N/A	N/A	1,026,188
pH	4.0-8.5	SU	5.94	NR	5.89
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	25.0 J	25.1	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
1,1-Dichloroethane	5	ug/L	ND (37.5)	0.34 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	4.70	ND (0.20)	ND (0.20)
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	NS	NS	ND (4.00)
Carbon Tetrachloride	5	ug/L	ND (37.5)	2.20	ND (0.75)
Chloroform	7	ug/L	ND (37.5)	0.89 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	1,510	ND (0.75)	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 May is 3,557,316.40 gallons.

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

SPDES Parameters			Week 5: May 9 to May 16, 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	05/13/22		
System Flowrate	400	GPM	N/A	N/A	100
Total Flow ¹	N/A	Gallons	N/A	N/A	609,916
pH	4.0-8.5	SU	NR	NR	6.09
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	20.70	21.50	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	0.72 J	ND (0.75)	ND (0.75)
1,1-Dichloroethane	5	ug/L	0.90 J	0.33 J	ND (0.75)
1,1-Dichloroethene	5	ug/L	6.00	ND (0.75)	ND (0.75)
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	3.50	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	1.00	0.78 J	ND (0.75)
cis 1,2-Dichloroethene	5	ug/L	1.00	ND (0.75)	ND (0.75)
Tetrachloroethene	5	ug/L	4.60	ND (0.75)	ND (0.75)
Trichloroethene	5	ug/L	1,350	ND (0.75)	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 May is 3,557,316.40 gallons.

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

SPDES Parameters			Week 6: May 16 to May 23, 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	05/20/22		
System Flowrate	400	GPM	N/A	N/A	100
Total Flow ¹	N/A	Gallons	N/A	N/A	738,289.2
pH	4.0-8.5	SU	NR	NR	5.96
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	18.4 J	19.60	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
1,1-Dichloroethane	5	ug/L	ND (37.5)	ND (0.75)	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	3.90	ND (0.20)	ND (0.20)
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	NS	NS	ND (4.00)
Carbon Tetrachloride	5	ug/L	ND (37.5)	2.00	ND (0.75)
Chloroform	7	ug/L	ND (37.5)	0.78 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	1,390	ND (0.75)	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 May is 3,557,316.40 gallons.

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

SPDES Parameters			Week 7: May 23 to May 31, 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	05/27/22		
System Flowrate	400	GPM	N/A	N/A	100
Total Flow ¹	N/A	Gallons	N/A	N/A	1,185,924
pH	4.0-8.5	SU	NR	NR	5.87
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	20.5 J	20.40	ND (0.75)
1,1,2-Trichloroethane	1	ug/L	ND (37.5)	ND (0.75)	ND (0.75)
1,1-Dichloroethane	5	ug/L	ND (37.5)	ND (0.75)	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	3.50	ND (0.20)	ND (0.20)
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	NS	NS	4.0J
Carbon Tetrachloride	5	ug/L	ND (37.5)	2.20	ND (0.75)
Chloroform	7	ug/L	ND (37.5)	0.81 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	1,560	ND (0.75)	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 May is 3,557,316.40 gallons.