



9 October 2023

Ms. Kristin Granzen
New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
625 Broadway
Albany, NY 12233-7252

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT
GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2
SEPTEMBER 2023 REPORTING PERIOD**

Dear Ms. Granzen:

KOMAN Government Solutions, LLC (KGS) is submitting this monthly monitoring report of the groundwater discharge and air emission results for the Groundwater Treatment Plant (GWTP) located at the Former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY, GM-38 Area. This report was prepared in accordance with GWTP operational requirements for DER Site # 1-30-003B-OU 2, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 September to 30 September 2023 are presented in Attachment A. The plant was down for approximately 8.2 hours during the reporting period as the result of maintenance of the Advanced Oxidation Process (AOP) system, a fire alarm inspection, and a power outage.

As indicated in Attachment A, all SPDES permitted aqueous constituents are in compliance with the established discharge limits, and all stack emissions are in compliance with established discharge goals during the current reporting period.

Please contact me at 610-400-0636 with any questions or concerns you may have regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

A handwritten signature in black ink that reads 'Robert G. Gregory'.

Robert G. Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results for September 2023

cc: C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
J. Pelton, NYSDEC
M. Travis, NYSDEC
J. Sullivan, NYSDOH
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
SEPTEMBER 2023

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
September 2023**

SPDES Parameters			September 2023				
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1	RW-3	RW-4	Combined Influent (RW-1 + RW-3 + RW-4)	Treated Effluent
Well Depth	N/A	ft	445	530	675	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	570-670	N/A	N/A
Sampling Date	N/A		9/5/23				
Effective Flowrate	1100	GPM	485	0	492	977	1,002
Total Flow	N/A	gallons	20,698,268	0	21,032,039	41,730,306	42,807,768
pH	5.5 - 8.5	SU	5.96	NS	6.33	6.15	6.94
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	0.962 J	NS	ND (1.0)	0.48 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.504 J	NS	1.26 J	0.89 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	2.83 J	NS	1.18 J	2.00 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	12.6	NS	5.45 J	9.0	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.294 J	NS	ND (1.0)	0.15 J	ND (1.0)
Trichloroethene	5	µg/L	44.5	NS	413	230	0.549 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	6.77 J	3.4 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane - 8270D	1	µg/L	1.5	NS	9.9	5.7	0.079
Mercury	0.0025	mg/L	ND (0.00010)	NS	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)

Notes:

B - Method blank contamination

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.

N/A - Not Applicable

NS - Not Sampled

* - Sample was re-analyzed outside of the holding tie due to the initial analysis QC failure.

(1) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and 1,1,2-trichlorotrifluoroethane are now monitored under the new permit.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
September 2023**

DAR Parameters			September 2023	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			9/5/23	
Average Flowrate ⁽³⁾	CFM	N/A	NR	1,345
Total Flow	ft ³	N/A	NR	57,446,156
Total Flow	m ³	N/A	NR	1,626,694
1,2-Dichloroethane	µg/m ³	N/A	ND	2.3 J
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	61	42
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	61	42
Toluene	µg/m ³	N/A	ND	ND
Total Xylene	µg/m ³	N/A	ND	ND
1,1,2-Trichloroethane	µg/m ³	N/A	ND	ND
Trichloroethene	µg/m ³	≤ 2600	14000	71
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	530	ND

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

J - Estimated result between laboratory method detection limit and reporting limit

N/A - Not Applicable

NR - Not recorded

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.

(2) Discharge goal is for total 1,2-Dichloroethene.

Goals based on an assumed air flow rate of 8,000 CFM

(3) The average flowrate is utilizing the readings from Blower B-1. Blower B-2 was taken offline on 11 May 2023.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
September 2023**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	September 2023
Sampling Date			9/5/23
Average Flowrate	CFM	N/A	1,345
Total Flow	ft ³	N/A	57,446,156
Total Flow	m ³	N/A	1,626,694
Trichloroethene	lb/hr	≤ 0.09	0.00035
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00021
1,2-Dichloroethane	lb/hr	N/A	0.00001
Toluene	lb/hr	N/A	0.00000
Total Xylene	lb/hr	N/A	0.00000
1,1,2-Trichloroethane	lb/hr	N/A	0.00000
Tetrachloroethene	lb/hr	≤ 0.18	0.00000

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.

Goals based on an assumed air flow rate of 8,000 CFM