



10 October 2021

Mr. Jason Pelton
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 2021 REPORTING PERIOD**

Dear Mr. Pelton:

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 2021 are presented in Attachment A. The plant was down for approximately 10 hours during the reporting period as the result of power failures attributable to inclement weather and from construction and testing activities associated with the addition of the Advanced Oxidation Process (AOP) system to the current treatment train.

As indicated in Attachment A, all SPDES permitted constituents are in compliance with regulatory guidelines during this 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 2021

cc: C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
J. Sullivan, NYSDOH
G. Ennis, Nassau County Department of Public Works
T. Licata, Town of Oyster Bay
M. Russo, Town of Oyster Bay
S. Sokolowski, NAVFAC Mid-Atlantic
V. Varricchio, NWIRP Bethpage Facilities Management
P. Schauble, KGS
GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
SEPTEMBER 2021

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
September 2021**

SPDES Parameters			September 2021 ⁽¹⁾				
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	655*	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	550-650*	N/A	N/A
Sampling Date	N/A		9/2/21				
Effective Flowrate	1100	GPM	630	0	176	806	852
Total Flow	N/A	gallons	26,859,100	0	7,477,300	34,336,400	36,301,900
pH	5.5 - 8.5	SU	5.67	NS	6.16	5.78	6.96
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.09 J	NS	ND (1.0)	0.85 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	0.584 J	NS	2.24 J	0.945 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	3.23 J	NS	1.90 J	2.94 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	14.6	NS	4.99 J	12.51	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.415 J	NS	ND (1.0)	0.325 J	ND (1.0)
Trichloroethene	5	µg/L	49.3	NS	588	166.6	0.288 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	5.48 J	1.193	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	1.7	NS	12	3.94	0.042
Mercury	0.00025	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	6.9	1.50	ND (1.0)

Notes:

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

ND - Not detected above laboratory method detection limit. Reporting Limit (RL) given in parentheses.

NR - Not Recorded

N/A - Not Applicable

NS - Not Sampled

(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.

* Design depths

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
September 2021**

DAR Parameters			September 2021	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			9/2/21	
Average Flowrate	CFM	N/A	NR	8,868
Total Flow	ft ³	N/A	NR	377,782,125
Total Flow	m ³	N/A	NR	10,697,598
1,2-Dichloroethane	µg/m ³	N/A	1.7 J	ND
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	40	30
trans 1,2-Dichloroethene	µg/m ³		ND	0.83 J
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	40	30
Toluene	µg/m ³	N/A	1.8 J	0.26 J
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	2900	1.1 J
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	190	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.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
September 2021**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	September 2021
Sampling Date			9/2/21
Average Flowrate	CFM	N/A	8,868
Total Flow	ft ³	N/A	377,782,125
Total Flow	m ³	N/A	10,697,598
Trichloroethene	lb/hr	≤ 0.09	0.00004
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00098
1,2-Dichloroethane	lb/hr	N/A	0.00000
Toluene	lb/hr	N/A	0.00001
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.