



10 October 2022

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 2022 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 2022 are presented in Attachment A. The plant was down for approximately 19.2 hours during the reporting period as the result of the backwashing of the GAC units and low flow alarms from the advanced oxidation process (AOP) hydrogen peroxide delivery system.

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 2022

cc: C. Haas, NYSDEC Region 1  
C. Engelhardt, NYSDEC Region 1  
J. Pilewski, NYSDEC – Region 1 Water Engineer  
K. Granzen, NYSDEC  
M. Travis, NYSDEC  
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  
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**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**SEPTEMBER 2022**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
September 2022**

SPDES Parameters			September 2022				
Process Stream	Daily Treated Effluent Maximum <sup>(1)</sup>	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		9/14/22				
Effective Flowrate	1100	GPM	470	0	459	929	985
Total Flow	N/A	gallons	19,770,300	0	19,293,000	39,063,300	41,404,800
pH	5.5 - 8.5	SU	5.59	NS	6.28	5.93	6.67
Chloroform	5	µg/L	0.276 J	NS	ND (1.0)	0.14 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.07 J	NS	ND (1.0)	0.54 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	0.647 J	NS	1.60 J	1.12 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	3.35 J	NS	ND (1.0)	1.70 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	14.2	NS	6.06 J	10.2	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.315 J	NS	ND (1.0)	0.16 J	ND (1.0)
Trichloroethene	5	µg/L	51.2	NS	677	360.3	ND (1.0)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	4.69 J	2.3 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	1.9	NS	13	7.4	0.11 *
1,4-Dioxane - 8270D SIM IDMS	1	µg/L	2.1	NS	14	8.0	0.11 *
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	ND (1.0)	ND (1.0)	ND (1.0)

**Notes:**

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

\* - Indicates the samples were reanalyzed outside of the holdtime.

(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 2022**

DAR Parameters			September 2022	
Process Stream	Units	Discharge Goal <sup>(1)</sup>	Influent	Effluent
Sampling Date			9/14/22	
Average Flowrate	CFM	N/A	NR	7,999
Total Flow	ft <sup>3</sup>	N/A	NR	336,356,807
Total Flow	m <sup>3</sup>	N/A	NR	9,524,564
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	ND	1.6 J
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	≤ 100,000 <sup>(2)</sup>	28	13
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		ND	ND
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	≤ 100,000	28	13
Toluene	µg/m <sup>3</sup>	N/A	ND	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	ND	ND
Trichloroethene	µg/m <sup>3</sup>	≤ 2600	7000	6.2
Vinyl Chloride	µg/m <sup>3</sup>	≤ 560	ND	ND
Tetrachloroethene	µg/m <sup>3</sup>	≤ 5100	180	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 2022**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>September 2022</b>
Sampling Date			9/14/22
Average Flowrate	CFM	N/A	7,999
Total Flow	ft <sup>3</sup>	N/A	336,356,807
Total Flow	m <sup>3</sup>	N/A	9,524,564
Trichloroethene	lb/hr	≤ 0.09	0.00018
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00038
1,2-Dichloroethane	lb/hr	N/A	0.00005
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.