



4 October 2019

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 2019 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 2019 are presented in Attachment A. No downtime was recorded during the reporting period.

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***

Robert Gregory  
Project Manager

Attachment A: Groundwater and Air Sampling Results from September 2019

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GM-38 Copy

**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**SEPTEMBER 2019**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
September 2019**

SPDES Parameters			September 2019 <sup>(1)</sup>			
Process Stream	Daily Treated Effluent Maximum <sup>(1)</sup>	Units	RW-1	RW-3 <sup>(2)</sup>	Combined Influent <sup>(3)</sup> (RW-1 + RW-3)	Treated Effluent
Well Depth	N/A	ft	445	530	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	N/A	N/A
Sampling Date	N/A		9/4/19			
Effective Flowrate	1100	GPM	641	164	805	862
Total Flow	N/A	gallons	27,689,483	7,094,250	34,783,733	37,250,313
pH	5.5 - 8.5	SU	5.07	5.38	5.13	6.28
Chloroform	5	µg/L	0.289 J	0.403 J	0.31 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.61 J	2.24 J	1.74 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.928 J	1.12 J	0.967 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.67 J	1.37 J	4.00 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	16.4	0.324 J	13.12	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.457 J	0.517 J	0.469 J	ND (1.0)
Trichloroethene	5	µg/L	58.9	138	75.0	0.201 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.693 J	0.14 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	2.1	5.7	2.8	NS
Mercury	0.00025	mg/L	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	3.8	0.8	ND (1.0)

**Notes:**

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

D - Concentration is a result of a dilution.

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.

(2) Well RW-3 was placed back in operation on 1 June, 2018.

(3) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
September 2019**

DAR Parameters			September 2019	
Process Stream	Units	Discharge Goal <sup>(1)</sup>	Influent	Effluent
Sampling Date			9/4/19	
Average Flowrate	CFM	N/A	NR	8,200
Total Flow	ft <sup>3</sup>	N/A	NR	354,218,400
Total Flow	m <sup>3</sup>	N/A	NR	10,030,348
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	2.4 J	ND
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	≤ 100,000 <sup>(2)</sup>	44	91
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		ND	ND
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	≤ 100,000	44	91
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	1300	ND
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 2019**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>September 2019</b>
Sampling Date			9/4/19
Average Flowrate	CFM	N/A	8,200
Total Flow	ft <sup>3</sup>	N/A	354,218,400
Total Flow	m <sup>3</sup>	N/A	10,030,348
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00279
1,2-Dichloroethane	lb/hr	N/A	0.00000
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.