



17 January 2020

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
DECEMBER 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 December to 31 December 2019 are presented in Attachment A. The plant was down for approximately 36.5 hours over the course of the reporting period because of the installation of pump 4B and from various backwashing events.

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 December 2019

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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
DECEMBER 2019

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

SPDES Parameters			December 2019 ⁽¹⁾			
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1	RW-3 ⁽²⁾	Combined Influent ⁽³⁾ (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		12/2/19			
Effective Flowrate	1100	GPM	616	160	776	832
Total Flow	N/A	gallons	27,514,266	7,121,604	34,635,870	37,137,950
pH	5.5 - 8.5	SU	5.04	5.37	5.11	6.45
Chloroform	5	µg/L	0.300 J	0.320 J	0.30 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.34 J	2.50 J	1.58 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	0.920 J	1.22 J	0.982 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.86 J	1.29 J	4.13 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	18.5	0.260 J	14.75	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.550 J	0.590 J	0.558 J	ND (1.0)
Trichloroethene	5	µg/L	73.2	159	90.8	ND (1.0)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.650 J	0.13 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	2.2	5.4	2.9	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)	8.4	1.7	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.

(4) pH reading was collected on 18 November 2019.

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

DAR Parameters			December 2019	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			12/2/19	
Average Flowrate	CFM	N/A	NR	8,911
Total Flow	ft ³	N/A	NR	378,259,821
Total Flow	m ³	N/A	NR	10,711,125
1,2-Dichloroethane	µg/m ³	N/A	1.6 J	1.4 J
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	42	62
trans 1,2-Dichloroethene	µg/m ³		0.81 J	1.2 J
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	43	64
Toluene	µg/m ³	N/A	0.35 J	ND
Total Xylene	µg/m ³	N/A	ND	ND
1,1,2-Trichloroethane	µg/m ³	N/A	1.5 J	ND
Trichloroethene	µg/m ³	≤ 2600	920	1.0 J
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	150	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
December 2019**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	December 2019
Sampling Date			12/2/19
Average Flowrate	CFM	N/A	8,911
Total Flow	ft ³	N/A	378,259,821
Total Flow	m ³	N/A	10,711,125
Trichloroethene	lb/hr	≤ 0.09	0.00003
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00203
1,2-Dichloroethane	lb/hr	N/A	0.00004
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.