

14 January 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

DECEMBER 2020 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 2020 are presented in Attachment A. No plant downtime was recorded during this 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

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Robert Gregory Project Manager

Attachment A: Groundwater and Air Sampling Results from December 2020

cc: S. Edwards, NYSDEC

D. Hesler, NYSDEC

C. Haas, NYSDEC Region 1

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- V. Varricchio, NWIRP Bethpage Facilities Management
- P. Schauble, KGS
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ATTACHMENT A GROUNDWATER AND AIR SAMPLING RESULTS DECEMBER 2020

GM-38 Area Groundwater Remediation Groundwater Treatment Plant Weapons Industrial Reserve Plant - Bethpag

Naval Weapons Industrial Reserve Plant - Bethpage, NY Discharge Monitoring Report December 2020

SPDES Parameters			December 2020 ⁽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		12/1/20			
Effective Flowrate	1100	GPM	612	174	786	843
Total Flow	N/A	gallons	27,300,000	7,750,700	35,050,700	37,449,900
рН	5.5 - 8.5	SU	5.36	5.91	5.48	6.74
Chloroform	5	μg/L	0.287 J	0.564 J	0.35 J	ND (1.0)
1,1-Dichloroethane	5	μg/L	1.11 J	2.81 J	1.49 J	ND (1.0)
1,2-Dichloroethane	0.6	μg/L	ND (1.0)	0.220 J	0.05	ND (1.0)
1,1-Dichloroethene	5	μg/L	0.908 J	1.40 J	1.02 J	ND (1.0)
cis 1,2-Dichloroethene	5	μg/L	4.16 J	2.12 J	3.71 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	17.2	ND (1.0)	13.40	ND (1.0)
1,1,1-Trichloroethane	5	μg/L	0.440 J	0.572 J	0.469 J	ND (1.0)
Trichloroethene	5	μg/L	56.7	131	73.13	0.337 J
1,1,2-Trichlorotrifluoroethane	5	μg/L	ND (1.0)	0.624 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	1.8	5.8	2.68	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)	1.3	0.29	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 December 2020

DAR Parameters	December 2020			
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			12/1/20	
Average Flowrate	CFM	N/A	NR	9,117
Total Flow	ft ³	N/A	NR	405,046,095
Total Flow	m ³	N/A	NR	11,469,628
1,2-Dichloroethane	μg/m³	N/A	1.5 J	ND
cis 1,2-Dichloroethene	μg/m³	≤ 100,000 ⁽²⁾	33	ND
trans 1,2-Dichloroethene	μg/m³	≤ 100,000 ` ′	ND	ND
1,2-Dichloroethene (total)	μg/m³	≤ 100,000	33	ND
Toluene	μg/m³	N/A	11	ND
Total Xylene	μg/m³	N/A	36	ND
1,1,2-Trichloroethane	μg/m³	N/A	0.79 J	ND
Trichloroethene	μg/m³	≤ 2600	770	ND
Vinyl Chloride	μg/m³	≤ 560	ND	ND
Tetrachloroethene	μg/m³	≤ 5100	120	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 2020

DAR Parameters	Units	Discharge Goal ⁽¹⁾	December 2020
Sampling Date			12/1/20
Average Flowrate	CFM	N/A	9,117
Total Flow	ft ³	N/A	405,046,095
Total Flow	m ³	N/A	11,469,628
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00000
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.