



19 March 2018

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
FEBRUARY 2018 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 February to 28 February 2018 are presented in Attachment A. On 11 January 2018, the GM38 GWTP was shut down to allow Nassau County Basin NC#495 to drain for maintenance activities. On 24 January 2018, the GWTP was placed back on line with a reduced flowrate at RW-1. During the month, the GWTP continued to operate at a reduced flowrate of approximately 135 gpm with its effluent discharge diverted into injection well IW-1 in order to accommodate rehabilitation of Nassau County Basin #495.

As indicated in Attachment A, all SPDES permitted constituents were in compliance with regulatory guidelines during this reporting period.

Please contact me at 610-400-0622 with any questions or concerns you may have regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Stephane Roy
Project Manager

Attachment A: Groundwater and Air Sampling Results from February 2018

Cc: S. Edwards, NYSDEC

D. Hesler, NYSDEC
C. Haas, NYSDEC Region 1
W. Parish, NYSDEC Region 1
R. Wither, NYSDEC Division of Water
J. Pilewski, NYSDEC – Region 1 Water Engineer
S. Karpinski, NYSDOH
J. Lovejoy, NCDH
L. Thantu, USEPA Region 2
G. Ennis, Nassau County Department of Public Works
S. Urban, Nassau County Department of Public Works
T. Licata, Town of Oyster Bay
M. Russo, Town of Oyster Bay
L. Fly, NAVFAC Mid-Atlantic RPM
G. Pearman, NWIRP Bethpage
GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
FEBRUARY 2018

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
February 2018**

SPDES Parameters	February 2018 ⁽¹⁾					
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1 ⁽²⁾	RW-3 ⁽³⁾	Combined Influent ⁽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		2/1/18			
Effective Flowrate	1100	GPM	74	0.2	74	72
Total Flow	N/A	gallons	2,980,200	6,800	2,987,000	2,914,400
pH	5.5 - 8.5	SU	5.04	NS	5.04	6.03
Chloroform	5	µg/L	0.40 J	NS	0.40 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.8	NS	1.8	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.31 J	NS	0.31 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.2	NS	1.2	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	6.7	NS	6.7	0.22 J
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	21	NS	21	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.84 J	NS	0.84 J	ND (1.0)
Trichloroethene	5	µg/L	89	NS	89	0.31 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	NS	NS	NS	2.3
Mercury	0.00025	mg/L	ND (0.00010)	NS	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	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. 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) On 11 January 2018, the GM38 GWTP was shut down to allow Nassau County Basin NC#495 to drain for maintenance activities. On 24 January 2018, the GWTP was placed back on line with a reduced flowrate at RW-1 from ~1,000 gpm to ~200 gpm, and further reduced to 135 gpm on 14 February 2018, with treated water diverted to injection well IW-1. Influent concentrations presented above are from RW-1 concentrations only.

(3) Well RW-3 was turned on for a total of approximately 1 hour this period.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
February 2018**

DAR Parameters		Discharge Goal ⁽¹⁾	February 2018	
			Influent	Effluent
Process Stream				
Sampling Date			2/1/18	
Average Flowrate	CFM	N/A	NR	9,659
Total Flow	ft ³	N/A	NR	389,444,160
Total Flow	m ³	N/A	NR	11,027,831
1,2-Dichloroethane	µg/m ³	N/A	ND	ND
cis 1,2-Dichloroethene	µg/m ³	> 100,000 ⁽²⁾	8.6	ND
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	>100,000	8.6	ND
Toluene	µg/m ³	N/A	4.4	2.3 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	2,600	180	2.4 J
Vinyl Chloride	µg/m ³	560	ND	ND
Tetrachloroethene	µg/m ³	5,100	24	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
February 2018**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	February 2018
Sampling Date			2/1/18
Average Flowrate	CFM	N/A	9,659
Total Flow	ft ³	N/A	389,444,160
Total Flow	m ³	N/A	11,027,831
Trichloroethene	lb/hr	0.09	0.00009
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	0.00008
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.