



6 May 2017

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  
APRIL 2017 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.

GWTP operational data from 1 April 2017 to 30 April 2017 are presented in Attachment A. There was no significant downtime for the GWTP during this reporting period.

As indicated in Attachment A, all 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 April 2017

Cc: Donald Hesler - NYSDEC  
Henry Wilkie - NYSDEC

Steven Scharf – NYSDEC

Jean Occidental - NYSDEC Division of Water

Jennifer Pilewski - NYSDEC – Region 1 Water Engineer

Gerard Ennis - Nassau County Department of Public Works

Linda Bianculli - Town of Oyster Bay

Lora Fly - NAVFAC Mid-Atlantic RPM

Greg Pearman – NWIRP Bethpage

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**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**APRIL 2017**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
April 2017**

SPDES Parameters	April 2017					
Process Stream	Daily Treated Effluent Maximum	Units	RW-1 <sup>(1)</sup>	RW-3 <sup>(2)</sup>	Combined Influent <sup>(1)</sup>	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		4/4/17			
Effective Flowrate	1100	GPM	982	0.2	982	1,008
Total Flow	N/A	gallons	43,870,300	11,100	43,881,400	45,040,600
pH	5.5 - 8.5	SU	5.12	NS	5.12	6.11
Carbon Tetrachloride	NA	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	2.0	NS	2.0	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.24 J	NS	0.24 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.5	NS	1.5	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	9.1	NS	9.1	0.35 J
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0) J	ND (1.0)
Tetrachloroethene	5	µg/L	28	NS	28	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	1.1	NS	1.1	ND (1.0)
Trichloroethene	5	µg/L	120	NS	120	0.33 J
Vinyl Chloride	2	µg/L	0.20 J	NS	0.20 J	ND (1.0)
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:**

B - Method blank contamination

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

NS - Not Sampled. RW-3 sampling frequency has been reduced from monthly to semi-annually.

N/A - Not Applicable

NS - Not Sampled

(1) On 1 July 2015, the RW-1 flowrate was increased from ~800 gpm to ~1,000 gpm and RW-3 was taken off-line, as approved by NYSDEC on 20 April 2015. Influent concentrations presented above are therefore equivalent to RW-1 concentrations only.

(2) To maintain the integrity of RW-3 for potential future use, approximately 200 gallons per minute of water are pumped for a 1-hour period from the well on a monthly basis. RW-3 is sampled semi-annually, consistent with the groundwater monitoring program.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
April 2017**

DAR Parameters	March 2017	Discharge Goal <sup>(1)</sup>	April 2017	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	4/4/17	
Average Flowrate	CFM	N/A	NR	7,360
Total Flow	ft <sup>3</sup>	N/A	NR	317,952,000
Total Flow	m <sup>3</sup>	N/A	NR	9,003,398
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	3.3	ND
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	> 100,000 <sup>(2)</sup>	130	180
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		2.9	2.0 J
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	>100,000	140	180
Toluene	µg/m <sup>3</sup>	N/A	4.5	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	2.1 J	ND
Trichloroethene	µg/m <sup>3</sup>	2,600	1600	4.4
Vinyl Chloride	µg/m <sup>3</sup>	560	3.6	2.7
Tetrachloroethene	µg/m <sup>3</sup>	5,100	320	1.6 J

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  
April 2017**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>April 2017</b>
Sampling Date	N/A	N/A	4/4/17
Average Flowrate	CFM	N/A	7,360
Total Flow	ft <sup>3</sup>	N/A	317,952,000
Total Flow	m <sup>3</sup>	N/A	9,003,398
Trichloroethene	lb/hr	0.09	0.00012
Vinyl Chloride	lb/hr	0.02	0.00007
1,2 Dichloroethene	lb/hr	11	0.00496
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	0.00004

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.