21 March 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 FEBRUARY 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 February 2017 to 28 February 2017 are presented in Attachment A. There was no significant downtime for the GWTP during this reporting period; minimal downtime occurred for various maintenance activities including repair on a 12 inch gate valve associated with reduced flow at pump P4.

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 February 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
GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

FEBRUARY 2017

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

SPDES Parameters	February 2017					
Process Stream	**Daily Treated Effluent Maximum**	**Units**	**RW-1 (1)**	**RW-3 (2)**	**Combined Influent (1)**	**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		2/7/17			
Effective Flowrate	1100	GPM	969	0.6	969	996
Total Flow	N/A	gallons	38,414,552	25,300	38,439,852	39,483,035
pH	5.5 - 8.5	SU	5.09	NS	5.09	6.04
Carbon Tetrachloride	NA	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.9	NS	1.9	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0) J	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.4	NS	1.4	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	8.5	NS	8.5	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0) J	ND (1.0)
Tetrachloroethene	5	µg/L	24	NS	24	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	1.0	NS	1.0	ND (1.0)
Trichloroethene	5	µg/L	110	NS	110	0.20 J
Vinyl Chloride	2	µg/L	0.31 J	NS	0.31 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
February 2017

DAR Parameters	**February 2017**	**Discharge Goal [1]**	**February 2017**	
Process Stream			**Influent**	**Effluent**
Sampling Date	N/A	N/A	2/7/17	
Average Flowrate	CFM	N/A	NR	9,066
Total Flow	ft^3	N/A	NR	365,538,998
Total Flow	m^3	N/A	NR	10,350,912
1,2-Dichloroethane	$\mu g/m^3$	N/A	3.70	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	> 100,000 [2]	110	150
trans 1,2-Dichloroethene	$\mu g/m^3$		2.00 J	2.2 J
1,2-Dichloroethene (total)	$\mu g/m^3$	>100,000	110	160
Toluene	$\mu g/m^3$	N/A	0.91 J	1.0 J
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	1.60 J	ND
Trichloroethene	$\mu g/m^3$	2,600	1500	3.2 J
Vinyl Chloride	$\mu g/m^3$	560	3.60	2.3
Tetrachloroethene	$\mu g/m^3$	5,100	340	1.4 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
February 2017

DAR Parameters	Units	Discharge Goal (1)	February 2017
Sampling Date	N/A	N/A	2/7/17
Average Flowrate	CFM	N/A	9,066
Total Flow	ft^3	N/A	365,538,998
Total Flow	m^3	N/A	10,350,912
Trichloroethene	lb/hr	0.09	0.00011
Vinyl Chloride	lb/hr	0.02	0.00008
1,2 Dichloroethene	lb/hr	11	0.00543
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	0.00005

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.