15 September 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 AUGUST 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 August to 31 August 2020 are presented in Attachment A. Nine and a half hours of downtime were recorded during this period associated with a power outage.

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 August 2020

Cc: S. Edwards, NYSDEC
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ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

AUGUST 2020

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
August 2020

SPDES Parameters			August 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		8/3/20			
Effective Flowrate	1100	GPM	799	213	1,012	1,052
Total Flow	N/A	gallons	35,669,600	9,517,600	45,187,200	46,974,700
pH	5.5 - 8.5	SU	4.91	5.41	5.02	6.70
Chloroform	5	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	0.905 J	1.85 J	1.10 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	0.620 J	1.23 J	0.748 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	3.23 J	1.38 J	2.84 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	16.7	ND (1.0)	13.18	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.375 J	0.498 J	0.401 J	ND (1.0)
Trichloroethene	5	µg/L	60.1	131	75.0	0.470 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.501 J	0.11 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	5.9	3.0	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)	3.1	0.7	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.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
August 2020

DAR Parameters			**August 2020**	
Process Stream	**Units**	**Discharge Goal** [(1)]	**Influent**	**Effluent**
Sampling Date			8/3/20	
Average Flowrate	CFM	N/A	NR	8,794
Total Flow	ft^3	N/A	NR	387,564,171
Total Flow	m^3	N/A	NR	10,974,595
1,2-Dichloroethane	$\mu g/m^3$	N/A	2.9 J	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	≤ 100,000 [(2)]	49	ND
trans 1,2-Dichloroethene	$\mu g/m^3$		1.6 J	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	≤ 100,000	51	ND
Toluene	$\mu g/m^3$	N/A	2.0 J	0.77 J
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	2.8 J	ND
Trichloroethene	$\mu g/m^3$	≤ 2600	1200	ND
Vinyl Chloride	$\mu g/m^3$	≤ 560	1.9 J	2.1 J
Tetrachloroethene	$\mu g/m^3$	≤ 5100	220	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
August 2020

DAR Parameters	Units	Discharge Goal (1)	August 2020
Sampling Date			8/3/20
Average Flowrate	CFM	N/A	8,794
Total Flow	ft^3	N/A	387,564,171
Total Flow	m^3	N/A	10,974,595
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00007
1,2 Dichloroethene	lb/hr	≤ 11	0.00000
1,2-Dichloroethane	lb/hr	N/A	0.00000
Toluene	lb/hr	N/A	0.00003
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.