6 November 2023

Ms. Kristin Granzen
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 OCTOBER 2023 REPORTING PERIOD

Dear Ms. Granzen:

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 October to 31 October 2023 are presented in Attachment A. The plant was offline for approximately 10.5 hours during the reporting period as the result of activator valve malfunctions at the EQ tank and LGAC Units, backwashing the LGAC Units #1, #2, and #3, and changing the carbon within VGAC Unit #1.

As indicated in Attachment A, all SPDES permitted aqueous constituents are in compliance with the established discharge limits, and all stack emissions are in compliance with established discharge goals during the current 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 G. Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results for October 2023

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GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

OCTOBER 2023

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
October 2023

SPDES Parameters			October 2023				
Process Stream	**Daily Treated Effluent Maximum[(1)]**	**Units**	**RW-1**	**RW-3**	**RW-4**	**Combined Influent (RW-1 + RW-3 + RW-4)**	**Treated Effluent**
Well Depth	N/A	ft	445	530	675	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	570-670	N/A	N/A
Sampling Date	N/A		10/2/23				
Effective Flowrate	1100	GPM	489	0	495	984	1,012
Total Flow	N/A	gallons	21,026,732	0	21,267,661	42,294,394	43,497,132
pH	5.5 - 8.5	SU	5.69	NS	6.27	5.98	6.94
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	0.831 J	NS	ND (1.0)	0.41 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.436 J	NS	1.16 J	0.80 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	2.52 J	NS	ND (1.0)	1.25 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	12.6	NS	5.44 J	9.0	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.252 J	NS	ND (1.0)	0.13 J	ND (1.0)
Trichloroethene	5	µg/L	43.9	NS	434	240	0.607 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	6.11 J	3.1 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane - 8270D	1	µg/L	1.5	NS	9.2	5.4	0.074
Mercury	0.0025	mg/L	ND (0.00010)	NS	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	ND (1.0)	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. Limit of Detection (LOD) given in parentheses.
N/A - Not Applicable
NS - Not Sampled
* - Sample was re-analyzed outside of the holding tie due to the initial analysis QC failure.
(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.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
October 2023

DAR Parameters			**October 2023**	
Process Stream	**Units**	**Discharge Goal** [1]	**Influent**	**Effluent**
Sampling Date			10/2/23	
Average Flowrate[3]	CFM	N/A	NR	1,192
Total Flow	ft^3	N/A	NR	52,178,485
Total Flow	m^3	N/A	NR	1,477,530
1,2-Dichloroethane	$\mu g/m^3$	N/A	ND	2.9
cis 1,2-Dichloroethene	$\mu g/m^3$	≤ 100,000 [2]	140	63
trans 1,2-Dichloroethene	$\mu g/m^3$		ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	≤ 100,000	140	63
Toluene	$\mu g/m^3$	N/A	ND	ND
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	ND	ND
Trichloroethene	$\mu g/m^3$	≤ 2600	19000	99
Vinyl Chloride	$\mu g/m^3$	≤ 560	ND	ND
Tetrachloroethene	$\mu g/m^3$	≤ 5100	940	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.
Goals based on an assumed air flow rate of 8,000 CFM
(3) The average flowrate is utilizing the readings from Blower B-1. Blower B-2 was taken offline on 11 May 2023.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
October 2023

DAR Parameters	Units	Discharge Goal (1)	October 2023
Sampling Date			10/2/23
Average Flowrate	CFM	N/A	1,192
Total Flow	ft^3	N/A	52,178,485
Total Flow	m^3	N/A	1,477,530
Trichloroethene	lb/hr	≤ 0.09	0.00043
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00028
1,2-Dichloroethane	lb/hr	N/A	0.00001
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.
Goals based on an assumed air flow rate of 8,000 CFM