



11 April 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
MARCH 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 March to 31 March 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. At the beginning of March 2018, 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. On 9 March 2018, the GM38 GWTP effluent discharge was redirected to Nassau County Basin #495 at an initial flowrate of 350 gpm. On 12 March, the flowrate was increased to 700 gpm, and on 15 March, the GM38 GWTP was return to its normal flowrate of 1,000 gpm.

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 March 2018

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GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
MARCH 2018

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

| SPDES Parameters | March 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 | | 3/7/18 | | | |
| Effective Flowrate | 1100 | GPM | 579 | 0.0 | 579 | 593 |
| Total Flow | N/A | gallons | 26,271,735 | 0 | 26,271,735 | 3,934,920,798 |
| pH | 5.5 - 8.5 | SU | 5.09 | NS | 5.09 | 5.98 |
| Chloroform | 5 | µg/L | 0.44 J | NS | 0.44 J | ND (1.0) |
| 1,1-Dichloroethane | 5 | µg/L | 1.9 | NS | 1.9 | ND (1.0) |
| 1,2-Dichloroethane | 0.6 | µg/L | 0.23 J | NS | 0.23 J | ND (1.0) |
| 1,1-Dichloroethene | 5 | µg/L | 1.1 | NS | 1.1 | ND (1.0) |
| cis 1,2-Dichloroethene | 5 | µg/L | 7.1 | NS | 7.1 | 0.22 J |
| trans 1,2-Dichloroethene | 5 | µg/L | ND (1.0) | NS | ND (1.0) | ND (1.0) |
| Tetrachloroethene | 5 | µg/L | 20 | NS | 20 | ND (1.0) |
| 1,1,1-Trichloroethane | 5 | µg/L | 0.78 J | NS | 0.78 J | ND (1.0) |
| Trichloroethene | 5 | µg/L | 76 | NS | 76 | 0.37 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 | 1.9 |
| 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
March 2018**

| DAR Parameters | | Discharge Goal ⁽¹⁾ | March 2018 | |
|----------------------------|-------------------|-------------------------------|------------|-------------|
| | | | Influent | Effluent |
| Process Stream | | | | |
| Sampling Date | | | 3/7/18 | |
| Average Flowrate | CFM | N/A | NR | 9,611 |
| Total Flow | ft ³ | N/A | NR | 428,028,850 |
| Total Flow | m ³ | N/A | NR | 12,120,427 |
| 1,2-Dichloroethane | µg/m ³ | N/A | ND | ND |
| cis 1,2-Dichloroethene | µg/m ³ | > 100,000 ⁽²⁾ | 6.3 | ND |
| trans 1,2-Dichloroethene | µg/m ³ | | ND | ND |
| 1,2-Dichloroethene (total) | µg/m ³ | >100,000 | 6.3 | ND |
| Toluene | µg/m ³ | N/A | 0.52 J | 1.6 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 | 140 | 0.74 J |
| Vinyl Chloride | µg/m ³ | 560 | ND | ND |
| Tetrachloroethene | µg/m ³ | 5,100 | 19 | 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
March 2018**

| DAR Parameters | Units | Discharge Goal ⁽¹⁾ | March 2018 |
|-----------------------|-----------------|--------------------------------------|-------------------|
| Sampling Date | | | 3/7/18 |
| Average Flowrate | CFM | N/A | 9,611 |
| Total Flow | ft ³ | N/A | 428,028,850 |
| Total Flow | m ³ | N/A | 12,120,427 |
| Trichloroethene | lb/hr | 0.09 | 0.00003 |
| 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 | 0.00006 |
| 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.