



19 March 2015

Mr. Henry Wilkie
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 2015 REPORTING PERIOD**

Dear Mr. Wilkie:

H&S Environmental, Inc. (H&S) 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 2015 to 28 February 2015 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 508-366-7442 with any questions or concerns you may have regarding this report.

Sincerely,
H&S Environmental, Inc.

Jennifer Good
Project Manager

Attachment A: Groundwater and Air Sampling Results from February 2015

Cc: 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
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GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
FEBRUARY 2015

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
February 2015**

| SPDES Parameters | February 2015 | | | | | |
|------------------------------|--------------------------------|---------|---------------------------------|--------------------|---|------------------|
| Process Stream | Daily Treated Effluent Maximum | Units | RW-1 | RW-3 | Combined Influent ⁽¹⁾ (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 | | 2/10/15, 2/25/15 ⁽²⁾ | | | |
| Average Flowrate | 1100 | GPM | 843 | 206 | 1,049 | 1,088 |
| Total Flow | N/A | gallons | 33,980,550 | 8,315,467 | 42,296,017 | 43,857,200 |
| pH | 5.5 - 8.5 | SU | 5.07 | 4.94 | 5.04 | 6.25 |
| Carbon Tetrachloride | NA | µg/L | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) |
| 1,1-Dichloroethane | 5 | µg/L | 2.4 | 2.7 | 2.5 | 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 | 2.8 | 1.8 | 2.6 | ND (1.0) |
| cis 1,2-Dichloroethene | 5 | µg/L | 18.5 | 1.9 | 15.2 | 0.54 J |
| trans 1,2-Dichloroethene | 5 | µg/L | 0.31 J | ND (1.0) | 0.25 J | ND (1.0) |
| Tetrachloroethene | 5 | µg/L | 38.5 | ND (1.0) | 30.9 | ND (1.0) |
| 1,1,1-Trichloroethene | 5 | µg/L | 0.85 J | 0.84 J | 0.85 J | ND (1.0) |
| Trichloroethene | 5 | µg/L | 189 | 231 | 197 | 1.1 J |
| Vinyl Chloride | 2 | µg/L | 0.65 J | ND (2.0) | 0.52 J | ND (2.0) |
| Mercury | 0.25 | mg/L | ND (0.00050) | ND (0.00050) | ND (0.00050) | ND (0.00050) |
| Total Suspended Solids (TSS) | N/A | mg/L | ND (5) | ND (5) | ND (5) | ND (5) |

Notes:

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.

NR - Not Recorded

N/A - Not Applicable

(1) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

(2) Samples were collected for VOC analysis on 2/10/15 and 2/25/15. Average analytical results are presented above.

Samples were collected for mercury and TSS analysis on 2/10/15 and pH analysis on 2/25/15.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
February 2015**

| DAR Parameters | Units | Discharge Goal ⁽¹⁾ | February 2015 | |
|----------------------------|-------------------|-------------------------------|---------------|-------------|
| | | | Influent | Effluent |
| Process Stream | | | | |
| Sampling Date | N/A | N/A | 2/10/15 | |
| Average Flowrate | CFM | N/A | NR | 8,391 |
| Total Flow | ft ³ | N/A | NR | 338,310,265 |
| Total Flow | m ³ | N/A | NR | 9,579,880 |
| 1,2-Dichloroethane | µg/m ³ | N/A | 5.1 J | ND |
| cis 1,2-Dichloroethene | µg/m ³ | > 100,000 ⁽²⁾ | 160 | 79 |
| trans 1,2-Dichloroethene | µg/m ³ | | ND | ND |
| 1,2-Dichloroethene (total) | µg/m ³ | >100,000 | 160 | 79 |
| Toluene | µg/m ³ | N/A | 1.1 J | ND |
| Total Xylene | µg/m ³ | N/A | ND | ND |
| 1,1,2-Trichloroethane | µg/m ³ | N/A | 4.4 J | ND |
| Trichloroethene | µg/m ³ | 2,600 | 3,600 | 3.3 J |
| Vinyl Chloride | µg/m ³ | 560 | 5.4 | 2.0 |
| Tetrachloroethene | µg/m ³ | 5,100 | 630 | 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
February 2015**

| DAR Parameters | Units | Discharge Goal ⁽¹⁾ | February 2015 |
|-----------------------|-----------------|--------------------------------------|----------------------|
| Sampling Date | N/A | N/A | 2/10/15 |
| Average Flowrate | CFM | N/A | 8,391 |
| Total Flow | ft ³ | N/A | 338,310,265 |
| Total Flow | m ³ | N/A | 9,579,880 |
| Trichloroethene | lb/hr | 0.09 | 0.00010 |
| Vinyl Chloride | lb/hr | 0.02 | 0.00006 |
| 1,2 Dichloroethene | lb/hr | 11 | 0.00248 |
| 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 | 0.00000 |

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.