



14 January 2015

Mr. Steven Scharf
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Action, Bureau A
625 Broadway
Albany, NY 12233-7015

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT
GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2
DECEMBER 2014 REPORTING PERIOD**

Dear Mr. Scharf:

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 December 2014 to 31 December 2014 are presented in Attachment A. There was no significant downtime for the GWTP during this reporting period; minor downtime occurred for maintenance activities.

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 December 2014

Cc: Henry Wilkie – NYSDEC Division of Solid & Hazardous Materials
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
Al Taormina – H&S
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
DECEMBER 2014

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
December 2014**

SPDES Parameters	December 2014					
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		12/4/14			
Average Flowrate	1100	GPM	823	199	1,022	1,041
Total Flow	N/A	gallons	36,750,600	8,882,450	45,633,050	46,492,000
pH	5.5 - 8.5	SU	5.02	4.96	5.01	6.35
Carbon Tetrachloride	NA	µg/L	ND (5.0)	ND (5.0)	ND (5.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	2.1 J	3.0 J	2.3 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (5.0)	ND (5.0)	ND (5.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	2.5 J	1.6 J	2.3 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	17.5	1.7 J	14.1 J	0.47 J
trans 1,2-Dichloroethene	5	µg/L	ND (5.0)	ND (5.0)	ND (5.0)	ND (1.0)
Tetrachloroethene	5	µg/L	33.3	ND (5.0)	26.8	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	ND (5.0)	ND (5.0)	ND (5.0)	ND (1.0)
Trichloroethene	5	µg/L	150	235	167	0.67 J
Vinyl Chloride	2	µg/L	ND (10.0)	ND (10.0)	ND (10.0)	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.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
December 2014**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	December 2014	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	12/4/14	
Average Flowrate	CFM	N/A	NR	8,560
Total Flow	ft ³	N/A	NR	382,105,646
Total Flow	m ³	N/A	NR	10,820,027
1,2-Dichloroethane	µg/m ³	N/A	3.6 J	ND
cis 1,2-Dichloroethene	µg/m ³	> 100,000 ⁽²⁾	160	9.0
trans 1,2-Dichloroethene	µg/m ³		5.1 J	ND
1,2-Dichloroethene (total)	µg/m ³	>100,000	160	9.0
Toluene	µg/m ³	N/A	9.1	ND
Total Xylene	µg/m ³	N/A	ND	ND
1,1,2-Trichloroethane	µg/m ³	N/A	3.3 J	ND
Trichloroethene	µg/m ³	2,600	2,400	6.3
Vinyl Chloride	µg/m ³	560	5.3	0.79 J
Tetrachloroethene	µg/m ³	5,100	460	1.9 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
December 2014**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	December 2014
Sampling Date	N/A	N/A	12/4/14
Average Flowrate	CFM	N/A	8,560
Total Flow	ft ³	N/A	382,105,646
Total Flow	m ³	N/A	10,820,027
Trichloroethene	lb/hr	0.09	0.00020
Vinyl Chloride	lb/hr	0.02	0.00003
1,2 Dichloroethene	lb/hr	11	0.00029
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	0.00006

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.