



18 June 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
MAY 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 May 2015 to 31 May 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 May 2015

Cc: Steven Scharf – NYSDEC
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
MAY 2015

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

SPDES Parameters	May 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		5/6/15			
Average Flowrate	1100	GPM	824	202	1,027	1,067
Total Flow	N/A	gallons	36,797,600	9,035,900	45,833,500	47,652,600
pH ⁽²⁾	5.5 - 8.5	SU	5.01	5.04	5.02	6.55
Carbon Tetrachloride	NA	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	2.2	2.4	2.2	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	2.4	1.7	2.3	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	15.0	1.7	12.4	0.46 J
trans 1,2-Dichloroethene	5	µg/L	0.26 J	ND (1.0)	0.21 J	ND (1.0)
Tetrachloroethene	5	µg/L	36.3	ND (1.0)	29.1	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	ND (1.0)	0.80 J	0.16 J	ND (1.0)
Trichloroethene	5	µg/L	159	209	169	1.0
Vinyl Chloride	2	µg/L	0.49 J	ND (2.0)	0.39 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) pH values were measured on 5/7/15.

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

DAR Parameters	Units	Discharge Goal ⁽¹⁾	May 2015	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	5/6/15	
Average Flowrate	CFM	N/A	NR	9,268
Total Flow	ft ³	N/A	NR	413,723,520
Total Flow	m ³	N/A	NR	11,715,345
1,2-Dichloroethane	µg/m ³	N/A	3.9 J	ND
cis 1,2-Dichloroethene	µg/m ³	> 100,000 ⁽²⁾	160	130
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	>100,000	160	130
Toluene	µg/m ³	N/A	1.7 J	0.56 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	2,500	8.0
Vinyl Chloride	µg/m ³	560	5.3	2.5
Tetrachloroethene	µg/m ³	5,100	440	2.1 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
May 2015**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	May 2015
Sampling Date	N/A	N/A	5/6/15
Average Flowrate	CFM	N/A	9,268
Total Flow	ft ³	N/A	413,723,520
Total Flow	m ³	N/A	11,715,345
Trichloroethene	lb/hr	0.09	0.00028
Vinyl Chloride	lb/hr	0.02	0.00009
1,2 Dichloroethene	lb/hr	11	0.00451
1,2-Dichloroethane	lb/hr	N/A	0.00000
Toluene	lb/hr	N/A	0.00002
Total Xylene	lb/hr	N/A	0.00000
1,1,2-Trichloroethane	lb/hr	N/A	0.00000
Tetrachloroethene	lb/hr	0.18	0.00007

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.