



14 March 2012

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
FEBRUARY 2012 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 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. H&S assumed operational responsibility of the GWTP on 1 June 2011. GWTP operational data from 1 February 2012 to 29 February 2012 are included in Attachment A. All constituents were within permit limitations during this reporting period.

Please contact Ms. Jennifer Good or myself at 508-366-7442 with any questions or concerns you may have regarding this report.

Sincerely,
H&S Environmental, Inc.

Patrick Schauble, P.E.
Senior Project Manager

Attachment A: Groundwater and Air Sampling Results from February 2012

Cc: Jean Occidental - NYSDEC Division of Water
William Spitz - NYSDEC – Region 1 Water Engineer
Gerard Ennis - Nassau County Department of Public Works
Richard Pfaender - Town of Oyster Bay
Lora Fly - NAVFAC Mid-Atlantic RPM
Al Taormina – ECOR
GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
FEBRUARY 2012

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
February 2012**

SPDES Parameters	February 2012					
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	500	500	500	N/A
Screened Interval	N/A	ft	470-500	470-500	470-500	N/A
Sampling Date	N/A		2/16/12			
Average Flowrate	1100	GPM	758	217	976	1007
Total Flow	N/A	gallons	31,668,400	9,074,540	40,742,940	42,066,120
pH	5.5 - 8.5	SU	5.98	6.06	6.00	7.35
Carbon Tetrachloride	NA	µg/L	ND	ND	ND	ND
1,1-Dichloroethane	5	µg/L	2.7 J	2.3 J	2.6 J	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/L	5.4	1.7 J	4.6 J	ND
cis 1,2-Dichloroethene	5	µg/L	38.6	1.6 J	30.4 J	0.85 J
trans 1,2-Dichloroethene	5	µg/L	ND	ND	ND	ND
Tetrachloroethene	5	µg/L	97.6	ND	75.9	ND
1,1,1-Trichloroethene	5	µg/L	4.7 J	ND	3.7 J	ND
Trichloroethene	5	µg/L	338	308	331	0.65 J
Vinyl Chloride	2	µg/L	4.3 J	ND	3.3 J	ND
Mercury	0.25	µg/L	ND	ND	ND	ND
Total Suspended Solids (TSS)	N/A	mg/L	ND	ND	ND	ND

Notes:

J - Estimated result between laboratory method detection limit and reporting limit

ND - Not detected above laboratory method detection limit

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
February 2012**

DAR Parameters	Units	SGC	February 2012	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	2/17/12	
Average Flowrate	CFM	N/A	NR	8,562
Total Flow	ft ³	N/A	NR	357,560,509
Total Flow	m ³	N/A	NR	10,124,986
1,2-Dichloroethane	µg/m ³	N/A	8.1 J	ND
cis 1,2-Dichloroethene	µg/m ³	N/A	390	0.86 J
trans 1,2-Dichloroethene	µg/m ³	N/A	6.6 J	ND
1,2-Dichloroethene (total)	µg/m ³	N/A	400	0.87 J
Toluene	µg/m ³	37,000	25	0.93 J
Total Xylene	µg/m ³	4,300	18	1.3 J
1,1,2-Trichloroethane	µg/m ³	N/A	4.8 J	ND
Trichloroethene	µg/m ³	14,000	3400	12
Vinyl Chloride	µg/m ³	180,000	28	ND
Tetrachloroethene	µg/m ³	1,300	970	4.6 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

SGC - Short-term Guideline Concentration

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
February 2012**

DAR Parameters	Units	Discharge Goal	February 2012
Sampling Date	N/A	N/A	2/17/12
Average Flowrate	CFM	N/A	8,562
Total Flow	ft ³	N/A	357,560,509
Total Flow	m ³	N/A	10,124,986
Trichloroethene	lb/hr	0.09	0.0004
Vinyl Chloride	lb/hr	0.01	0.0000
1,2 Dichloroethene	lb/hr	0.03	0.0000
1,2-Dichloroethane	lb/hr	BRT	0.0000
Toluene	lb/hr	BRT	0.0000
Total Xylene	lb/hr	BRT	0.0000
1,1,2-Trichloroethane	lb/hr	BRT	0.0000
Tetrachloroethene	lb/hr	0.02	0.0001

Notes:

BRT - below reporting thresholds

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable