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FINAL QUARTERLY OPERATIONS REPORT FIRST QUARTER 2011 FOR GROUNDWATER TREATMENT PLANT GM-38 AREA GROUNDWATER REMEDIATION NWIRP BETHPAGE NY

06/13/2011

ECOR FEDERAL SERVICES, LLC

FINAL

QUARTERLY OPERATIONS REPORT
FIRST QUARTER 2011

GROUNDWATER TREATMENT PLANT
GM-38 AREA GROUNDWATER REMEDIATION
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

Contract No. N62472-05-D-0031
Contract Task Order #003

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1.0 INTRODUCTION

ECOR Federal Services, LLC (ECOR) has prepared this Quarterly Operations Report for the GM-38 Area Groundwater Treatment Plant (GWTP) at the Naval Weapons Industrial Reserve Plant (NWIRP) in Bethpage, New York, for the United States Department of the Navy (Navy), Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic, under Contract No. N62472-05-D-0031, Contract Task Order No. 003.

1.1 Background

NWIRP Bethpage is located in east central Nassau County, Long Island, New York, approximately 30 miles east of New York City (**Figure 1**) and is currently listed by New York State Department of Environmental Conservation (NYSDEC) as an "inactive hazardous waste site" (#1-30-003B). Historically, the Navy's property totaled approximately 109.5 acres and was a Government Owned Contractor-Operated (GOCO) facility that was operated by the Northrop Grumman Corporation (NGC) until September 1998. NWIRP Bethpage is bordered on the north, west, and south by property owned, or formerly owned, by NGC that covered approximately 605 acres, and, on the east, by a residential neighborhood.

The GM-38 Area refers to a cluster of monitoring wells that were installed in the 1990s by NGC. The GM-38 Area is approximately 8,500 feet south southeast and hydraulically down-gradient of NWIRP Bethpage. The GWTP is located within a utility easement with a street address of 100 Broadway.

The "hot spot" cleanup remedy for the GM-38 Area groundwater was originally set forth in Record of Decision (ROD) documents for Operable Unit 2 (OU 2) Groundwater for the Northrop NGC and NWIRP Sites (New York State Registry Site Numbers 1-30-003A & 1-30-003B, respectively) issued by NYSDEC Division of Environmental Remediation in March 2001 and for the NWIRP Bethpage Site by NAVFAC in April 2003 (Revision 1). The selected remedy was chosen in accordance with the New York State Environmental Conservation Law (ECL) and the Navy's Installation Restoration Program (IRP). It is also consistent with the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9601-9675.

1.2 GWTP Overview

Groundwater is extracted from recovery wells RW-1 and RW-3 and treated in the GWTP. The treatment process consists of flow equalization, air stripping and vapor-phase carbon treatment, bag filtration, liquid-phase carbon treatment and pH adjustment (if needed). To this point, pH adjustment has not been necessary even though sodium hydroxide has been stored on site and the equipment remains in place. Since pH adjustment is not anticipated in the immediate future, the sodium hydroxide was sent off site for beneficial reuse. A process flow diagram is presented as **Figure 2**. The treated water is either re-injected into injection well IW-1 or discharged into the Nassau County Recharge Basin #495. Under CERCLA, the Navy is required to meet the effluent requirement in the NYSDEC's Storm Pollution Discharge Elimination System Permit as Applicable or Relevant and Appropriate Requirements (ARAR).
The GWTP was designed to operate at an average flow rate of 1,100 gallons per minute (gpm) (800 gpm from RW-1 and 300 gpm from RW-3) with a maximum flow rate of 1,375 gpm, as measured by the

average discharge flow rate. It was determined that this flow rate would be necessary to effectively contain the higher concentration of contamination in the GM-38 Area groundwater. The average concentration of Volatile Organic Compounds (VOCs) in the influent groundwater consists of 3,400 µg/l of trichloroethene, 900 µg/l of tetrachloroethene, 300 µg/l of vinyl chloride, 1,100 µg/l of cis-1,2-dichloroethene, and smaller concentrations of 1,2-dichloroethane, benzene, toluene, and total xylenes.

The air stripper (AS) is a structural aluminum tower that is packed with 3.5 inch diameter polypropylene Jaeger Tripack. Groundwater is pumped to the air stripper distribution port and sprayed over the column of Jaeger Tripack at a flow rate of approximately 1,200 gpm. This includes approximately 1,100 gpm of raw groundwater and 100 gpm of recirculation water. An induced draft countercurrent flow of air enters the air stripper below the base of the packing material at a rate of 8,000 scfm. The large surface area of the packing material allows for a mass transfer of the VOCs from the groundwater into the air stream. All of the VOCs in the off-gas, except for vinyl chloride, are removed via two 20,000 lb vapor phase granular activated carbon (VGAC) units (VGAC-1 and VGAC-2). Vinyl chloride is oxidized by a 20,000 lb potassium permanganate vessel (VGAC-3) into potassium chloride and carbon dioxide. The potassium chloride remains in the pore structure of the zeolite substrate. The treated off-gas is discharged out of the stack.

Water treated by the air stripper is passed through three 8,000 liquid phase granular activated carbon (LGAC) units in parallel prior to discharge in the recovery basin (or injection well, if necessary).

The GWTP is controlled by a PLC-based digital and analog control system, with monitoring instrumentation, such as pH, pressure, tank level, and flow transmitters, differential pressure transmitters, and pump signals that communicate with a PLC. In turn, the information in the PLC is made available to an operator via a human-machine interface (HMI) program. By using this program, the status of the GWTP can be displayed in real time and adjusted, if necessary, by the operator.

2.0 GWTP OPERATION AND MAINTENANCE

While designed to run completely automated, the GWTP requires regular weekly visits by an operator to record and adjust operational parameters and to perform scheduled maintenance.

2.1 Routine Maintenance Activities

Routine maintenance activities at the GWTP during the quarter were performed during the operator's weekly visits (generally; Monday, Wednesday and Friday averaging 20 hours a week). These activities include general site inspections, collection of operational data (water and vapor flowrates, pressures, tank levels and totalizer readings), measurement of water depth in the recovery wells, adjustment of pump signal settings, collection of vapor and process water samples, changing out of bag filters, switching of lead/lag pump assignments, and preventive maintenance of system equipment.

2.2 Non-routine Maintenance Activities

The following non-routine activities were performed during the First Quarter 2011:

- On March 22, 2011 at 2030, there was an alarm for a high level in the air stripper tower. Upon arrival of the operator at 2130, the GWTP was shutdown, however, the air stripper pump, P-4A, was still operating. As a result, the heat from the motor damaged the PVC piping. Some of the piping and fittings needed to be replaced.

- An instrumentation vendor was subcontracted to troubleshoot the programming logic controller software and determine why the motor continued to operate following the alarm condition. However, to date, no cause has been determined.

3.0 GWTP MONITORING

The GWTP is not intended to remediate groundwater contamination in the local aquifer to non-detectable levels. Rather, the intent of the system is to remove mass and reduce elevated VOC levels to levels similar to those in the surrounding aquifer. Doing so will minimize the impacts on water supply wells and currently unaffected portions of the aquifer. To monitor GWTP effectiveness and for compliance with Federal and State requirements, several process (water and vapor) samples are collected on a monthly basis. In addition, groundwater samples are collected quarterly to monitor water quality and hydraulic containment.

3.1 Process Water Quality Monitoring

Processed groundwater is tested to comply with calculations submitted by the Navy and approved by NYSDEC Water Division for the effluent limitations and monitoring requirements. These results are also submitted to the NYSDEC on a monthly basis in the form of a Discharge Monitoring Report (DMR). A copy of the approved NYSDEC effluent limitation and monitoring constituents and the reporting forms are included as **Appendix A**.

Samples are collected from each recovery well (RW-1 and RW-3), as well as, the effluent water discharge line. The analytical results of monthly process water sampling performed during the First Quarter 2011 are presented in **Table 1**. The data demonstrates that all permitted constituents were in compliance for the quarter. **Table 1** also summarizes the average monthly flowrates in gallons per minute along with the total volume of water processed.

3.2 Air Quality Monitoring

Treated off-gas discharged at the stack of the GWTP is subject to emissions limitations as described by the calculations submitted by the Navy and approved by the NYSDEC Division of Air Resources (DAR) in July 2009. A copy of the NYSDEC approved calculations are included as **Appendix B**.

While only sampling of the stack is required for NYSDEC compliance, vapor samples are also collected using 6L summa canisters at various locations to monitor for breakthrough of the VGAC units. The analytical results of monthly influent and effluent vapor samples collected during the First Quarter 2011 are presented in **Table 2**. Air emissions calculations using the stack vapor concentrations along with discharge flowrates are presented in **Table 3**. The calculations demonstrate that all permitted constituents were in compliance.

3.3 Groundwater Quality Monitoring

The groundwater monitoring well system at the GM-38 Groundwater Remediation Area consists of 14 monitoring wells (as summarized in **Table 4)**, 3 recovery wells (RW-1, RW-2, RW-3) and 1 injection well (IW-1). All well locations are shown on **Figure 3**.

On a quarterly basis, depth to water (DTW) measurements are collected from 12 of the monitoring wells, while water quality samples are collected from seven of the monitoring wells (as shown on **Figure 4).** Two wells, GM-38D and GM-38D2, located at the corner of Aurthur Avenue and Broadway shown in **Figure 5**, are being monitored by others.

The monitoring system includes well clusters located near the recovery and injection wells as described below and shown on **Figure 3**.

Recovery Well 1(RW-1)
The RW-1 cluster consists of three monitoring wells screened between 395 and 435 feet below ground surface (bgs). RW-1 MW-1 is located approximately 140 feet northwest of RW-1 and RW-1 MW-2 is located approximately 50 feet north of RW-1. RW-1 MW-3 is located approximately 400 feet northeast of RW-1, on the eastern side of Seaford Oyster Bay Expressway. All three wells are hydraulically monitored while only RW-1MW1 and RW-1MW-3 are monitored for water quality.

Recovery Well 2(RW-2)
The RW-2 cluster consists of three monitoring wells screened between 470 and 510 feet bgs. RW-2 MW-1 is located approximately 60 feet northwest of RW-2, RW-2 MW-2 is located approximately 20 feet west of RW-2, and RW-2 MW-3 is located approximately 100 feet west of RW-2. All three wells are hydraulically monitored while only RW-2 MW1 is monitored for water quality.

Recovery Well 3(RW-3)
The RW-3 cluster consists of four monitoring wells RW-3 MW-1 and RW-3 MW-3 are screened between 320 and 340 ft bgs, RW-3 MW-2 and RW-3 MW-4 are screened between 475 and 495 feet bgs. RW-3 MW-1 and RW-3 MW-2 are located approximately 500 feet west of the GM-38 cluster, at the intersection of Arthur Avenue and Leroy Avenue. RW-3 MW-3 and RW-3 MW-4 are located approximately 400 feet north of the intersection of Arthur Avenue and Broadway. All four wells are both hydraulically monitored and monitored for water quality.

Injection Well 3(IW-1)
There is one monitoring well associated with injection well IW-1. IW-1 MW-1 is screened between 130 and 150 feet bgs and is located approximately 20 feet south of IW-1. It is only hydraulically monitored.

TP-1
TP-1 is screened between 450 and 470 feet bgs and is located approximately 25 feet north of the GWTP building, inside the fenced area. It is hydraulically monitored to observe the change in water levels due to the influence from the pumping rates at the neighboring public water supply well field near the hot spot area.

3.3.1 Groundwater Quality Results

ECOR collected groundwater samples from the seven (7) monitoring wells (RW1-MW1, RW1-MW3, RW2-MW1, RW3-MW1, RW3-MW2, RW3-MW3, RW3-MW4). Samples were collected using bladder pumps following the United States Environmental Protection Agency (USEPA) micropurge and low-flow sampling methodologies. Field parameters measured during well purging included pH, specific conductance (S.C.), temperature, oxidation-reduction potential (ORP) and dissolved oxygen (DO). The results are summarized in **Table 5**. Copies of the field notes are presented in **Appendix C**. Following stabilization of field parameters, samples were collected from the pump discharge.

Groundwater samples collected were submitted to a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory (Accutest Laboratories located in Dayton, NJ) for the analysis of Target Compound List (TCL) VOCs using USEPA Method 624, Mercury using USEPA Method SW846 7470A, and TSS using USEPA Method SM20 2540D. Validated analytical results of samples collected during the monitoring event are summarized in **Table 6.** The data validation report is presented in **Appendix D**. Raw analytical data is presented on **Appendix E**.

3.3.2 Quality Assurance/Quality Control Sampling

Additionally, the following quality assurance/quality control (QA/QC) samples were also collected: blind field duplicate (collected from RW3-MW1), field blank (FB), trip blank (TB), and matrix spike/matrix spike duplicate (MS/MSD). The results of the FB and TB samples indicate that no constituents were detected above laboratory method detection limits (MDL).

For duplicate (DUP) samples, the precision between the original sample and its duplicate is evaluated by calculating the relative percent difference (RPD). ECOR has evaluated DUP samples using an acceptance criterion of twenty percent (20%) for detected primary COC. **Table 7** presents the RPDs for the groundwater. If the sample results are below MDLs a RPD cannot be calculated for that sample. As shown on **Table 7**, none of the calculated RPDs were above the 20% criteria. The overall consistency between the samples indicates that proper sample collection methods were followed.

TABLES

Table 1
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Results
First Quarter 2011

SPDES Parameters	Daily Maximum Goal	Units	January 2011				February 2011				March 2011			
Process Stream			RW-1	RW-3	Influent	Effluent	RW-1	RW-3	Influent	Effluent	RW-1	RW-3	Influent	Effluent
Well Depth		ft	500	500	N/A	N/A	500	500	N/A	N/A	500	500	N/A	N/A
Screened Interval		ft	470-500	470-500	N/A	N/A	470-500	470-500	N/A	N/A	470-500	470-500	N/A	N/A
Sampling Date			1/19/11				2/28/11				3/21/11			
Average Flowrate	1100	GPM	814	297	1111	1142	800	258	1059	1100	401	129	530	551
Total Flow		gallons	NR	NR	49,595,040	50,978,880	NR	NR	42,680,960	44,360,960	NR	NR	23,670,360	24,591,060
pH	5.5 - 8.5	SU	NR	NR	6.06	6.98	NR	NR	5.73	6.86	NR	NR	6.06	6.97
1,1-Dichloroethane	5	µg/l	3.1	1.8	2.8	ND	2.9	2.5	2.8	ND	2.8	2.0	2.6	ND
1,2-Dichloroethane	0.6	µg/l	0.66 J	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/l	6.6	1.3	5.2	ND	6.4	1.6	5.2	ND	6.8	2.0	5.6	ND
Carbon Tetrachloride	N/A	µg/l	0.7 J	0.18 J	0.56 J	ND	0.51 J	ND J	0.39 J	ND	0.62 J	ND J	0.47 J	ND
cis 1,2-Dichloroethene	5	µg/l	64.1	2.1	47.5	ND	57.2	2.0	43.7	ND	61.5	1.9	47.0	ND
trans 1,2-Dichloroethene	5	µg/l	1.1	ND	0.8	ND	1.1	ND	0.8	ND	1.1	ND	0.8	ND
Tetrachloroethene	5	µg/l	115	ND	84	ND	118	ND	89	ND	100	ND	76	ND
1,1,1-Trichloroethene	5	µg/l	8.8	1.1	6.7	ND	7.7	1.2	6.1	ND	7.5	1.2	6.0	ND
Trichloroethene	5	µg/l	442	343	416	0.4 J	418	331	397	0.4 J	330	285	319	0.28 J
Vinyl Chloride	2	µg/l	7.0	ND	5.1	ND	5.7	ND	4.3	ND	6.9	ND	5.2	ND
Mercruy	0.25	µg/l	< 0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	<0.20	<0.20

Notes:
J, B - Estimated result less than reporting limit
ND - Not Detected
NR - Not Recorded
SU - standard units
µg/l - micrograms per liter
gpm - gallons per minute

Table 2
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
First Quarter 2011

DAR Parameters	SGC	Units	January 2011		February 2010		March 2010	
Process Stream			Influent	Effluent	Influent	Effluent	Influent	Effluent
Sampling Date			1/28/11		2/14/11		3/11/11	
Average Flowrate		CFM		9265		8714		4388
Trichloroethene	14000	$\mu g/m^3$	6800	9.3	3400	6	10000	28
Tetrachloroethene	1000	$\mu g/m^3$	6800	ND	1300	ND	2300	5.8
Vinyl Chloride	180000	$\mu g/m^3$	56	ND	71	ND	76	ND
trans 1,2-Dichloroethene	-	$\mu g/m^3$	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	-	$\mu g/m^3$	440	ND	630	ND	750	ND
1,2-Dichloroethene (total)	-	$\mu g/m^3$	440	ND	630	ND	750	ND
1,2-Dichloroethane	-	$\mu g/m^3$	ND	ND	ND	ND	ND	ND
Toluene	37000	$\mu g/m^3$	ND	ND	ND	ND	ND	ND
Xylene	4300	$\mu g/m^3$	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	$\mu g/m^3$	ND	ND	ND	ND	ND	ND

Notes:
ND - Not detected
NR - Not recorded
SGC - Short-term Guideline Concentration
$\mu g/m^3$ - micrograms per cubic meter
CFM - cubic feet per minute
DAR - Division of Air Rescources

Table 3
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Stack Emissions
First Quarter 2011

DAR Parameters	Discharge Goal	Units	January 2011	February 2011	March 2011
Sampling Date			1/28/11	2/14/11	3/11/11
Average Flowrate		CFM	9265	8714	4388
Total Flow		ft^3	413,589,600	351,366,400	195,888,690
Total Flow		m^3	11,704,586	9,943,669	5,543,650
Trichloroethene	0.09	lb/hr	0.00	0.000	0.0005
Tetrachloroethene	0.02	lb/hr	0.00	0.00	0.0001
Vinyl Chloride	0.01	lb/hr	0.0000	0.00	0.00
1,2 Dichloroethene	0.03	lb/hr	0.0000	0.0000	0.0000
1,2-Dichloroethane	BRT	lb/hr	0.00	0.00	0.00
Toluene	BRT	lb/hr	0.00	0.00	0.00
Xylene	BRT	lb/hr	0.00	0.00	0.00
1,1,2-Trichloroethane	BRT	lb/hr	0.00	0.00	0.00

Notes:
BRT - Below reporting thresholds
lb/hr - pounds per hour
DAR - Divison of Air Resources
CFM - Cubic feet per minute

Table 4
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Groundwater Level Measurements
First Quarter 2011

Monitoring Well ID	Date	Time	Total Depth (ft)	Screen Interval (ft)	Depth to Water (ft)
RW1-MW1	03/24/11	1000	435	395-435	33.20
RW1-MW2	03/24/11	1010	435	395-435	32.28
RW1-MW3	03/24/11	1015	435	395-435	27.08
RW2-MW1	03/24/11	1020	510	470-510	37.31
RW2-MW2	03/24/11	1025	510	470-510	33.61
RW2-MW3	03/24/11	1040	510	470-510	33.05
RW3-MW1	03/24/11	900	350	330-350	36.18
RW3-MW2	03/24/11	910	495	475-795	37.52
RW3-MW3	03/24/11	1030	340	320-340	37.46
RW3-MW4	03/24/11	1035	495	475-495	38.51
TP-1	03/24/11	930	470	450-470	36.55
IW1-MW1	03/24/11	945	NA	NA	35.07
GM38D	NA	NA	340	320-340	NA
GM382D	NA	NA	495	475-495	NA

Notes:
ft - Feet
NA - Not Available

Table 5
Summary of Final Groundwater Chemistry Data
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Summary of Groundwater Chemistry Data
First Quarter 2011

Location	pH (SU)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (ºC)	ORP (MV)	Color (Visual)
RW1-MW1	4.86	161	N/A	6.22	11.74	520	clear
RW1-MW3	4.39	147	N/A	1.46	13.14	348	clear
RW2-MW1	10.73	0.101	N/A	0.53	12.78	-100	clear
RW3-MW1	3.54	106	N/A	5.29	11.71	398	clear
RW3-MW2	4.14	0.850	N/A	8.32	12.65	352	clear
RW3-MW3	8.42	0.135	N/A	3.03	14.12	8.1	clear
RW3-MW4	8.68	0.092	N/A	4.09	14.48	2.8	clear

Notes:
S.C. = Specific Conductance
mS/cm = milliSiemens per centimeter
NTU = nephelometric turbidity units
mg/L = milligrams per liter
ºC = degrees celsius
MV = millivolts
SU = standard units
ORP = oxidation/reduction potential
NWIRP = Naval Weapons Industrial Reserve Plant
N/A = Not Available due to equipment failure

Table 6
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Summary of Groundwater Data - March 2011

Sample ID	RW1-MW1	RW1-MW3	RW2-MW1	RW2-MW3	RW3-MW1		RW3-MW2	RW3-MW3	RW3-MW4
Sample Date	3/25/2011	3/25/2011	3/24/2011	5/28/2009	3/25/2011	3/25/2011	3/25/2011	3/25/2011	3/24/2011
Comments						duplicate			
Well Depth (Ft)	435	435	510	510	350		495	340	495
Screened Interval (Ft)	395-435	395-435	470-510	470-510	330-350		475-495	320-340	475-495
TCL VOC (8260B/624) ug/L									
acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzene	ND	ND	**0.30J**	ND	ND	ND	ND	ND	ND
bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	ND	ND	ND	ND	ND	ND	ND	NR	NR
chloroform	**0.55J**	**0.73J**	ND	ND	ND	ND	ND	**0.33J**	ND
chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cyclohexane	NR	NR	NR	ND	NR	NR	NR	NR	NR
dibromochloromethane	ND	NR	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	**3.6**	**2.4**	ND	**1.4**	**1.3**	**1.3**	ND	**1.5**	**0.81**
1,2-dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	**1.9**	ND	ND	**0.42J**	**1.2**	**1.1**	ND	**0.96J**	ND
cis-1,2-dichloroethene	**121**	**0.58J**	**0.43J**	**2.3**	**0.47J**	**0.45J**	**1.6**	**2.3**	ND
trans-1,2-dichloroethene	**4.2**	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dioxane	NR	NR	NR	NR	NR	NR	NR	NR	NR
ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	ND	NR	ND	ND	ND	ND	ND	ND	ND
methyl-tert-butyl-ether	NR	NR	NR	ND	NR	NR	NR	NR	NR
styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	NR	NR	ND	ND	NR	NR	NR	NR	NR
tetrachloroethene	ND	ND	ND	ND	**1.4**	**1.6**	ND	ND	ND
1,1,1-trichloroethane	**0.79J**	**0.33J**	ND	ND	**1.1**	**1.1**	ND	**0.62J**	ND
1,1,2-trichloroethane	ND	**0.41J**	ND	ND	ND	ND	ND	ND	ND
trichloroethene	**97.6**	**1.0**	1.7	**18.0**	**76.2**	**77.9**	**110**	**288**	**7.7**
trichlorofluoromethane	NR	NR	NR	ND	NR	NR	NR	NR	NR
toluene	ND	ND	ND	**0.39J**	ND	ND	ND	ND	ND
vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury (SW846-7470A) ug/L	<0.20	<0.20	**<0.20**	ND	<0.20	<0.20	<0.20	<0.20	<0.20
TSS (SM20 2540D) mg/L	4.0	<4.0	<4.0	14.8	<4.0	<4.0	10.0	<4.0	<4.0

Note:
VOC analysis changed to EPA Method 624 in January 2010
D-dilution
J-estimated value
ND-not detected
NR-not requested
R-Rejected
mg/L - milligrams per liter
µg/l - micrograms per liter

Table 7
GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Calculated Relative Percent Difference
First Quarter 2011

Well ID RW3-MW1

Blind Duplicate Sample ID DUP

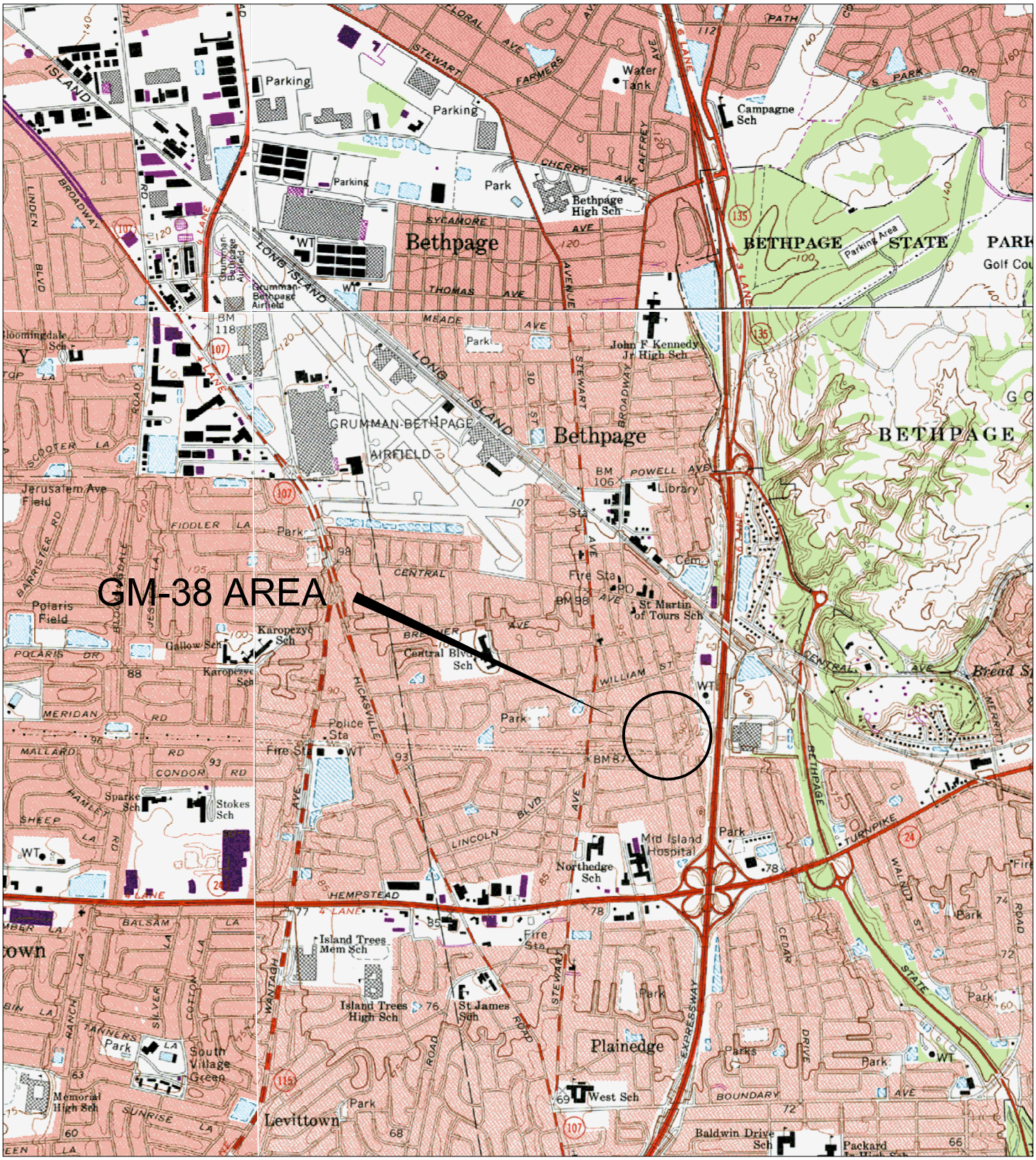
Constituent	Concentration (µg/L)		RPD
	Original	Duplicate	
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
1,1-Dichloroethane	1.3	1.3	0.0%
1,2-Dichloroethane	ND	ND	NC
1,1-Dichloroethene	1.2	1.1	8.7%
cis-1,2-Dichloroethene	0.47 J	0.45 J	4.3%
trans-1,2-Dichloroethene	ND	ND	NC
Tetrachloroethene	1.4	1.6	13%
1,1,1-Trichloroethane	1.1	1.1	0.0%
1,1,2-Trichloroethane	ND	ND	NC
Trichloroethene	76.2	77.9	2.2%
Toluene	ND	ND	NC
Vinyl Chloride	ND	ND	NC

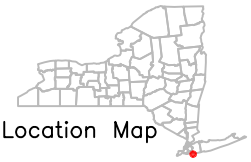
Notes:

J = Estimated value
NC = not calculated
ND = not detected above laboratory detection limit
mg/L = micrograms per liter

$$\text{RPD = Relative Percent Difference} = \frac{\text{(Original Concentration - Duplicate Concentration)}}{\text{(Original Concentration + Duplicate Concentration)/2}} \times 100$$

FIGURES





Quadrangle Location Map

0 2000 4000 Feet

N

Source: U.S.G.S. Topographic Maps (7.5 Minute)
Amityville, Freeport, Hicksville, Huntington, NY Quadrangles

U.S. Navy RAC
Engineering Field Activity, Northeast

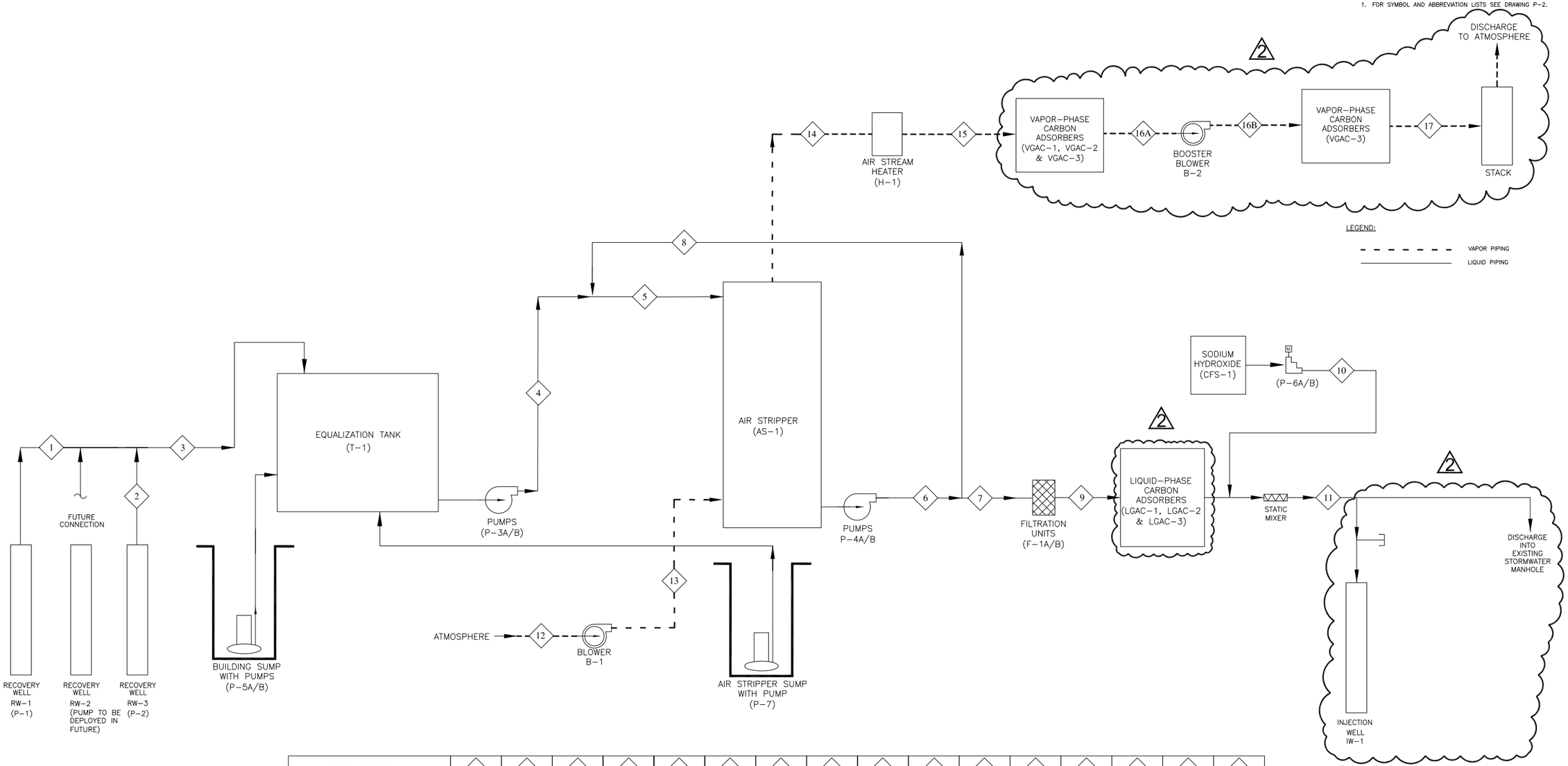
GM-38 Area (Offsite)
NWIRP Bethpage
Bethpage, NY

Figure 1
Site Location Map

P:\LantDiv\Bethpage\CAD - GIS\Dwg\O&M Manual\Site Location Map.dwg, 6/29/2009 3:33:52 PM

NOTES:

1. FOR SYMBOL AND ABBREVIATION LISTS SEE DRAWING P-2.



STREAM NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COMPOSITION (UG/L, UNLESS OTHERWISE NOTED)																
BENZENE	4	4	4	4	3	-	-	-	-		-					
TOLUENE	15	15	15	15	12	-	-	-	-		-					
XYLENES, TOTAL	16	16	16	16	12	-	-	-	-		-					
1,2-DICHLOROETHANE	3	3	3	3	2.8						2.7^{E-07}					
cis 1,2-DICHLOROETHENE	1100	1100	1100	1100	1008	0.10	0.10	0.10	0.10		1.0^{E-04}					
VINYL CHLORIDE	300	300	300	300	275	0.03	0.03	0.03	0.03		2.7^{E-05}					
TETRACHLOROETHENE (PCE)	900	900	900	900	825	0.08	0.08	0.08	0.08		8.2^{E-05}					
TRICHLOROETHENE (TCE)	3400	3400	3400	3400	3117	3.12	3.12	3.12	3.12		3.1^{E-03}					
WATER FLOW RATE (GPM)	800	300	1100	1100	1200	1200	1100	100	1100	1.1 gpd	1100					
TEMPERATURE (°F)	55	55	55	55	55	55	55	55	55	60	55					
PRESSURE (PSIG)												-0.27	1.50	1.36	1.18	0.53
DENSITY (lb/ft^3)										95.5		0.077	0.085	0.084	0.082	0.079
MASS FLOW RATE (lb/hr)	400364	150136	550500	550500	600545	600545	550500	50,045	550500	0.59	550500	36,960	40,800	40,320	39,360	37,920
RELATIVE HUMIDITY (%)												50	50	100	50	50
STATIC PRESSURE (PSIA)												0.214	0.214	0.214	0.275	0.275
pH (S.U.)	5.5	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	14	7.0					
VAPOR FLOW RATE (CFM)												8000	8000	8000	8000	8000
TOTAL VAPOR VOC (PPMV)												-	-	25.5	25.5	1.2
TOTAL VAPOR VOC (LBS/HR)												-	-	3.18	3.18	0.15

REV	DESCRIPTION	PREP BY	DATE	APPRVD
0	FINAL DESIGN	DL	05/05/06	BKB
1	ADDED RECOVERY WELL RW-3. CHANGED RW-2 TO FUTURE CONNECTION	DLB	03/31/08	BKB
2	REVISED BASED ON VENDOR SUBMITTALS. DRAWING UPDATES FOR CONSTRUCTION	DLB	02/24/09	BKB

TETRA TECH ENGINEERING CORPORATION PC

DESIGN: DR: CH ENG: CHK:
SUPV: SUBMITTED BY: (TRM NUMBER) (TITLE) (DATE)
NORTHDIV DN: HD: ND: DR:
FPC:
OFFICER IN CHARGE
APPROVED DATE

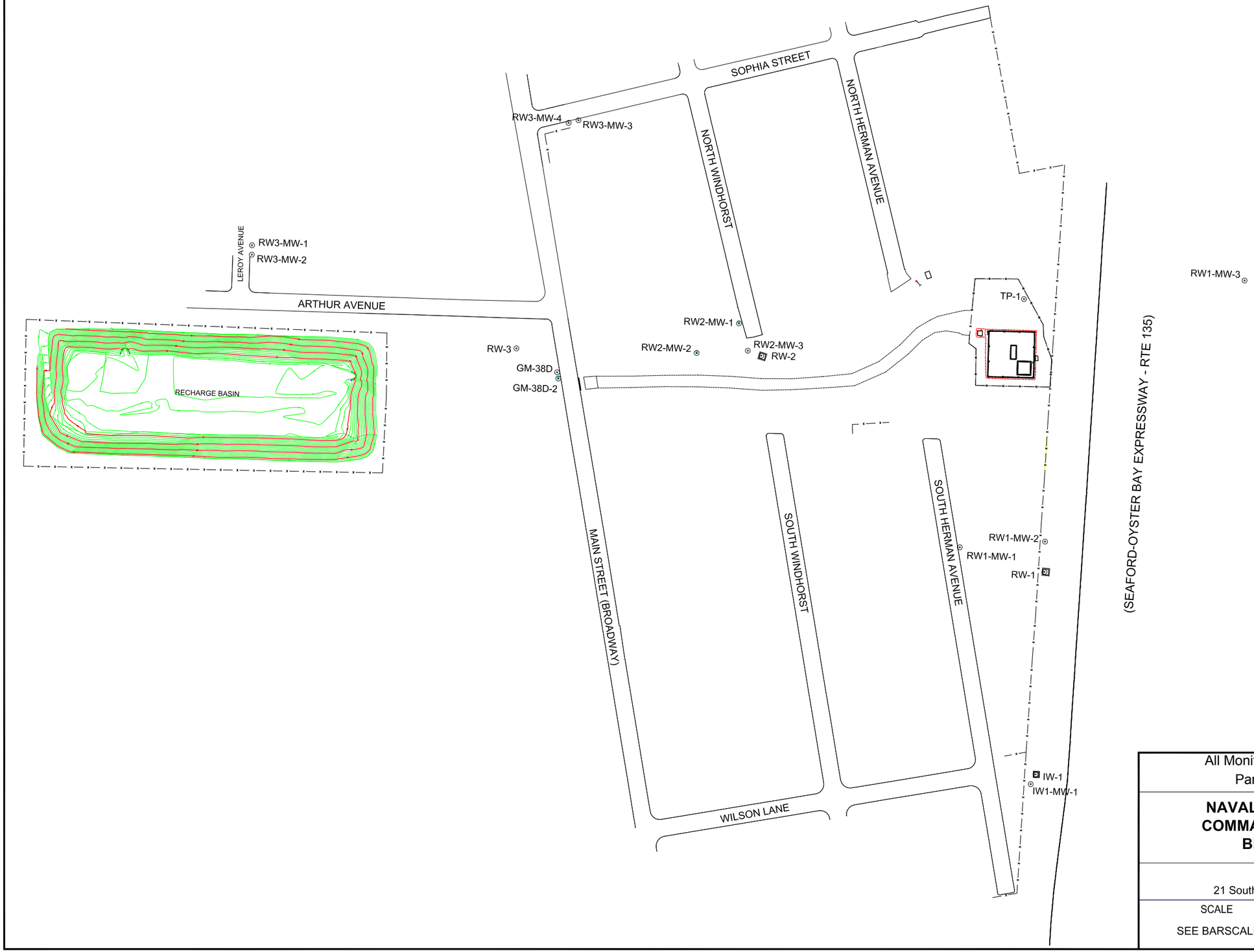
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ENGINEERING FIELD ACTIVITY - NORTHEAST
LESTER PENNSYLVANIA
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK
GM-38 AREA
GROUNDWATER TREATMENT PLANT
PROCESS FLOW DIAGRAM - GROUNDWATER AND OFF-GAS TREATMENT
APPROVED DATE
EFANE FOR COMMANDER, NAVFAC

THIS DRAWING PRODUCED ON AUTOCAD DO NOT REVISE MANUALLY

"THIS DOCUMENT IS THE PROPERTY OF NAVAL FACILITIES ENGINEERING COMMAND, PREPARED BY TETRA TECH EC, INC., AND IS PROVIDED UPON THE CONDITION THAT IT WILL NOT BE REPRODUCED, COPIED, OR ISSUED TO A THIRD PARTY, AND WILL BE USED SOLEY FOR THE ORIGINAL INTENDED PURPOSE AND SOLEY FOR THE EXECUTION OR REVIEW OF THE ENGINEERING CONSTRUCTION OF THE PROJECT".

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, FOR ANY PERSON, UNLESS UNDER THE DIRECTION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DOCUMENT IN ANY WAY.

SAT TO DATE 05/05/06
CODE I.D. NO. 80091
SCALE : AS SHOWN
SPEC. NO.
CONSTRN. CONTR. NO. N62472-99-D-0032
NAVFAC DRAWING NO. Figure 2
SHEET OF
SIZE: D DIS. SH. NO. 1-4



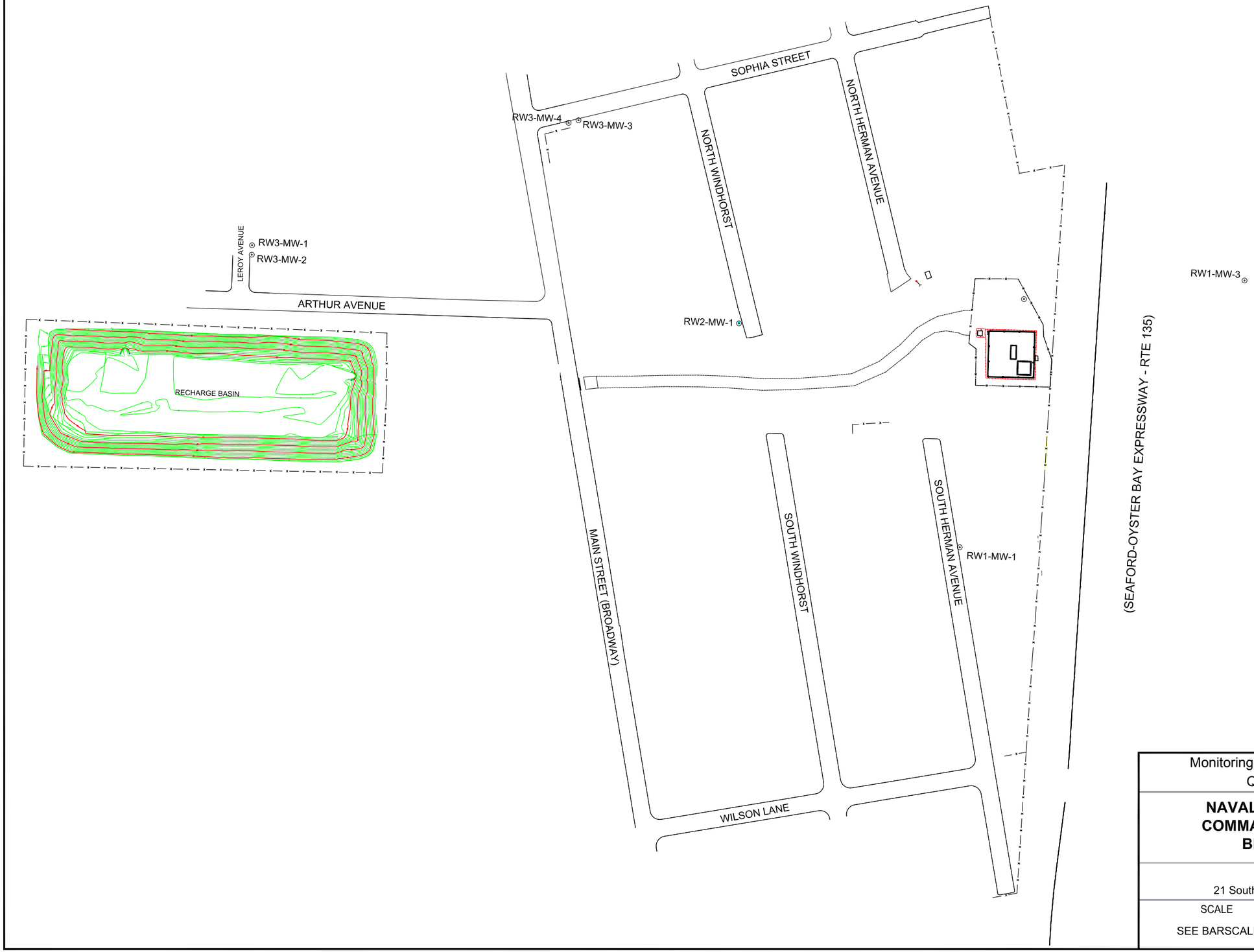
All Monitoring and Recovery Well Locations
Part of the GM-38 Area Remedy

NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC - NWIPR
BETHPAGE, NEW YORK

ECOR Solutions
21 South High Street, West Chester, PA 19380

SCALE	DATE	FIGURE
SEE BARSCALE	11-22-2010	3

ECOR/GM-38 NAVAL FAC/AS-BUILT 2008-PM.dwg 11/19/2010



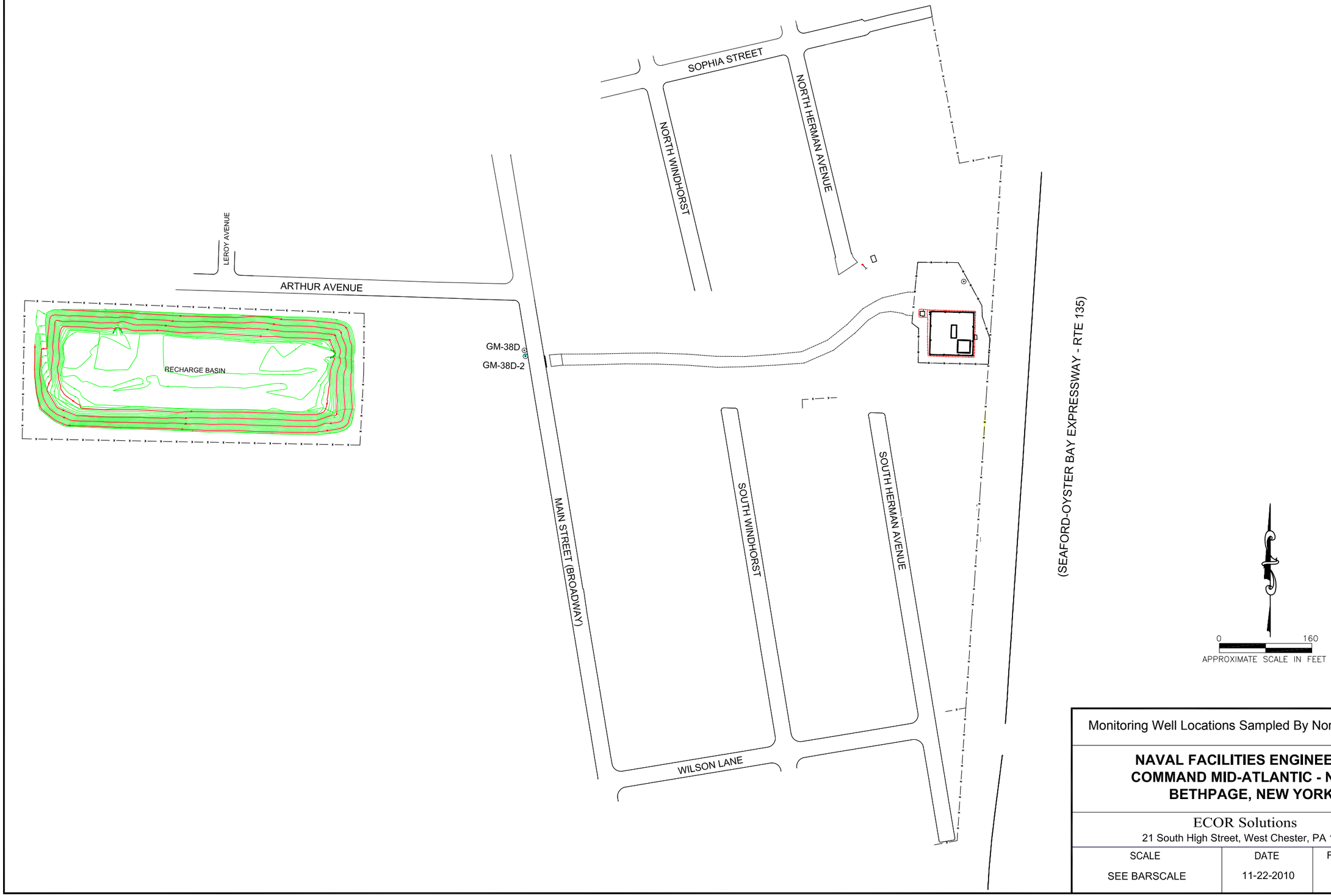
Monitoring Well Locations Sampled As Part Of Quarterly GM-38 OMM

NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC - NWIPR
BETHPAGE, NEW YORK

ECOR Solutions
21 South High Street, West Chester, PA 19380

SCALE	DATE	FIGURE
SEE BARSCALE	11-22-2010	4

ECOR/GM-38 NAVAL FAC/AS-BUILT 2008-PM.dwg 11/19/2010



Monitoring Well Locations Sampled By Northrop Grumman

NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC - NWIPR
BETHPAGE, NEW YORK

ECOR Solutions
21 South High Street, West Chester, PA 19380

SCALE	DATE	FIGURE
SEE BARSCALE	11-22-2010	5

ECOR/GM-38 NAVAL FAC/AS-BUILT 2008-PM.dwg 11/19/2010

APPENDIX A
NYSDEC Effluent Limitations and Monitoring Requirements

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits, 4th Floor
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 • **FAX:** (518) 402-9029
Website: www.dec.state.ny.us

Alexander B. Grannis
Commissioner

RECEIVED
JUN - 9 2008
BUREAU OF EASTERN

MEMORANDUM

TO: Steven Scharf, DER

FROM: Jean Occidental, DOW, Bureau of Water Permits JO

SUBJECT: Naval Weapons Industrial Reserve Plant (NWIRP); DER Site # 1-01-001

DRAINAGE BASIN: na

DATE: June 6, 2008

In response to your request and the permittee's SPDES Permit Equivalent Application dated April 27, 2008, attached is the effluent criteria for the above noted groundwater remediation discharge.

The Division of Water does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. The Division of Environmental Remediation will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. Additional Condition (1) identifies the contact to send all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of these discharges and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at (518) 402-8116.

Attachment

cc: (w/att) RWE, Region 1
C. Webber
BWP Permit Coordinator

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning: April 1, 2009

and lasting until: April 1, 2014

the discharges from the treatment facility to Groundwater shall be limited and monitored by the operator as specified below:

Outfall and Parameters	Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
Treated Groundwater Remediation Discharge from: Recovery Wells 1, 2, and 3					
Flow	Monitor	1100	GPM	Continuous	Recorder
pH (range)	5.5 - 8.5		SU	Weekly	Grab
1,1-Dichloroethane	NA	5	µg/l	Monthly [1]	Grab
1,2-Dichloroethane	NA	0.6	µg/l	Monthly [1]	Grab
1,1-Dichloroethene	NA	5	µg/l	Monthly [1]	Grab
cis-1,2-Dichloroethene	NA	5	µg/l	Monthly [1]	Grab
trans-1,2-Dichloroethene	NA	5	µg/l	Monthly [1]	Grab
Tetrachloroethene	NA	5	µg/l	Monthly [1]	Grab
1,1,1-Trichloroethane	NA	5	µg/l	Monthly [1]	Grab
Trichloroethene	NA	5	µg/l	Monthly [1]	Grab
Vinyl chloride	NA	2	µg/l	Monthly [1]	Grab
Mercury	NA	0.25	µg/l	Monthly [1]	Grab

Footnotes:

(1) The minimum measurement frequency shall be monthly following a period of 24 consecutive weekly sampling events showing no exceedances of the stated discharge limitations.

Additional Conditions:

(1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Steven Scharf
Division of Environmental Remediation
NYSDEC, 625 Broadway
Albany, NY 12233-7015
Phone: (518) 402-9620

With a copy sent to:

Regional Water Engineer
NYSDEC - Region 1
Building 40, SUNY Campus
Stony Brook, New York 11790-2356
Phone: (631) 444-0354

(2) Only site generated wastewater is authorized for treatment and discharge.

(3) Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

(4) Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.

(5) This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

Environmental
Construction
Operation &
Remediation

ECOR Federal Services, LLC
21 S High St, 2nd Floor
West Chester, PA 19382
(484) 887-7510
(610) 431-2852 (fax)

February 21, 2011

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

SUBJECT: **GM-38 GROUNDWATER REMEDIATION AT NWIRP BETHPAGE, NY MONTHLY REPORT ON GROUNDWATER AND AIR DISCHARGE FOR DER SITE # 1-30-003B-OU 2**

Dear Mr. Scharf:

In accordance with groundwater treatment system operational requirements for DER Site # 1-30-003B-OU 2, ECOR Federal Services, LLC. (ECOR) on behalf of the United States Department of the Navy is submitting this monthly report of the groundwater and air discharge results for the GM-38 system. The enclosed data, presented as Attachment 1, is for treatment system operations from January 1 through January 31, 2011. All constituents were within permit limitations.

Please do not hesitate contact me with any questions regarding this letter or report at office phone # 610-840-9200 or via email at lapp@ecor-solutions.com

Sincerely,
ECOR Federal Services, LLC.

Matthew Lapp
Project Engineer

Attachments: Groundwater and Air Sampling Results from January 1 - 31, 2011

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, Navy Mid-Atlantic RPM
Al Taormina, ECOR Solutions, Inc.
GM-38 Project Site File

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
January 2011

SPDES Parameters	**Daily Maximum**	**Units**	**January 2011**			
Process Stream			**RW-1**	**RW-3**	**Influent**	**Effluent**
Well Depth		ft	500	500	N/A	N/A
Screened Interval		ft	470-500	470-500	N/A	N/A
Sampling Date			1/19/11			
Average Flowrate		GPM	814	297	1111	1142
Total Flow		gallons	NR	NR	49,595,040	50,978,880
pH (range)	5.5 - 8.5	SU	NR	NR	6.06	6.98
1,1-Dichloroethane	5	µg/l	3.1	1.8	2.8	ND
1,2-Dichloroethane	0.6	µg/l	0.66 J	ND	ND	ND
1,1-Dichloroethene	5	µg/l	6.6	1.3	5.2	ND
Carbon Tetrachloride	N/A	µg/l	0.7 J	0.18 J	0.56 J	ND
cis 1,2-Dichloroethene	5	µg/l	64.1	2.1	47.5	ND
trans 1,2-Dichloroethene	5	µg/l	1.1	ND	0.8	ND
Tetrachloroethene	5	µg/l	115	ND	84	ND
1,1,1-Trichloroethene	5	µg/l	8.8	1.1	6.7	ND
Trichloroethene	5	µg/l	442	343	416	0.4 J
Vinyl Chloride	2	µg/l	7.0	ND	5.1	ND
Mercruy	0.25	µg/l	< 0.20	<0.20	<0.20	<0.20

Notes:
J, B - Estimated result less than reporting limit
ND - Not Detected
NR - Not Recorded
N/A - Not Applicable

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
January 2011

DAR Parameters	SGC	Units	January 2011	
Process Stream			**Influent**	**Effluent**
Sampling Date			1/28/11	
Average Flowrate		CFM		9265
Total Flow		ft^3	NR	413,589,600
Total Flow		m^3	NR	11,704,586
Trichloroethene	14000	$\mu g/m^3$	6800	9.3
Tetrachloroethene	1000	$\mu g/m^3$	6800	ND
Vinyl Chloride	180000	$\mu g/m^3$	56	ND
trans 1,2-Dichloroethene	-	$\mu g/m^3$	ND	ND
cis 1,2-Dichloroethene	-	$\mu g/m^3$	440	ND
1,2-Dichloroethene (total)	-	$\mu g/m^3$	440	ND
1,2-Dichloroethane	-	$\mu g/m^3$	ND	ND
Toluene	37000	$\mu g/m^3$	ND	ND
Xylene	4300	$\mu g/m^3$	ND	ND
1,1,2-Trichloroethane	-	$\mu g/m^3$	ND	ND

Notes:
ND - Not detected
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
January 2011

DAR Parameters	Discharge Limit	Units	January 2011
Sampling Date			1/28/11
Average Flowrate		CFM	9265
Total Flow		ft^3	413,589,600
Total Flow		m^3	11,704,586
Trichloroethene	0.09	lb/hr	0.0003
Tetrachloroethene	0.02	lb/hr	0.00
Vinyl Chloride	0.01	lb/hr	0.00
1,2 Dichloroethene	0.03	lb/hr	0.00
1,2-Dichloroethane	BRT	lb/hr	0.00
Toluene	BRT	lb/hr	0.00
Xylene	BRT	lb/hr	0.00
1,1,2-Trichloroethane	BRT	lb/hr	0.00

Notes:
BRT - Below reporting thresholds

Environmental Construction Operation & Remediation

ECOR Federal Services, LLC
21 S High St, 2nd Floor
West Chester, PA 19382
(484) 887-7510
(610) 431-2852 (fax)

March 10, 2011

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

SUBJECT: **GM-38 GROUNDWATER REMEDIATION AT NWIRP BETHPAGE, NY MONTHLY REPORT ON GROUNDWATER AND AIR DISCHARGE FOR DER SITE # 1-30-003B-OU 2**

Dear Mr. Scharf:

In accordance with groundwater treatment system operational requirements for DER Site # 1-30-003B-OU 2, ECOR Federal Services, LLC. (ECOR) on behalf of the United States Department of the Navy is submitting this monthly report of the groundwater and air discharge results for the GM-38 system. The enclosed data, presented as Attachment 1, is for treatment system operations from February 1 through February 28, 2011. All constituents were within permit limitations.

Please do not hesitate contact me with any questions regarding this letter or report at office phone # 610-840-9200 or via email at lapp@ecor-solutions.com

Sincerely,
ECOR Federal Services, LLC.

Matthew Lapp
Project Engineer

Attachments: Groundwater and Air Sampling Results from February 1 - 28, 2011

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, Navy Mid-Atlantic RPM
Al Taormina, ECOR Solutions, Inc.
GM-38 Project Site File

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
February 2011

SPDES Parameters	**Daily Maximum**	**Units**	**February 2011**			
Process Stream			**RW-1**	**RW-3**	**Influent**	**Effluent**
Well Depth		ft	500	500	N/A	N/A
Screened Interval		ft	470-500	470-500	N/A	N/A
Sampling Date			2/28/11			
Average Flowrate		GPM	800	258	1059	1100
Total Flow		gallons	NR	NR	42,680,960	44,360,960
pH (range)	5.5 - 8.5	SU	NR	NR	5.73	6.86
1,1-Dichloroethane	5	µg/l	2.9	2.5	2.8	ND
1,2-Dichloroethane	0.6	µg/l	0.66 J	ND	ND	ND
1,1-Dichloroethene	5	µg/l	6.4	1.6	5.2	ND
Carbon Tetrachloride	N/A	µg/l	0.51 J	ND J	0.39 J	ND
cis 1,2-Dichloroethene	5	µg/l	57.2	2.0	43.7	ND
trans 1,2-Dichloroethene	5	µg/l	1.1	ND	0.8	ND
Tetrachloroethene	5	µg/l	118	ND	89	ND
1,1,1-Trichloroethene	5	µg/l	7.7	1.2	6.1	ND
Trichloroethene	5	µg/l	418	331	397	0.4 J
Vinyl Chloride	2	µg/l	5.7	ND	4.3	ND
Mercruy	0.25	µg/l	< 0.20	<0.20	<0.20	<0.20

Notes:
J, B - Estimated result less than reporting limit
ND - Not Detected
NR - Not Recorded
N/A - Not Applicable

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
February 2011

DAR Parameters	**SGC**	**Units**	**February 2011**	
Process Stream			**Influent**	**Effluent**
Sampling Date			2/14/11	
Average Flowrate		CFM		8714
Total Flow		ft^3	NR	351,366,400
Total Flow		m^3	NR	9,943,669
Trichloroethene	14000	$\mu g/m^3$	3400	6
Tetrachloroethene	1000	$\mu g/m^3$	1300	ND
Vinyl Chloride	180000	$\mu g/m^3$	71	ND
trans 1,2-Dichloroethene	-	$\mu g/m^3$	ND	ND
cis 1,2-Dichloroethene	-	$\mu g/m^3$	630	ND
1,2-Dichloroethene (total)	-	$\mu g/m^3$	630	ND
1,2-Dichloroethane	-	$\mu g/m^3$	ND	ND
Toluene	37000	$\mu g/m^3$	ND	ND
Xylene	4300	$\mu g/m^3$	ND	ND
1,1,2-Trichloroethane	-	$\mu g/m^3$	ND	ND

Notes:
ND - Not detected
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 2011

DAR Parameters	Discharge Limit	Units	February 2011
Sampling Date			2/14/11
Average Flowrate		CFM	8714
Total Flow		ft^3	351,366,400
Total Flow		m^3	9,943,669
Trichloroethene	0.09	lb/hr	0.0002
Tetrachloroethene	0.02	lb/hr	0.00
Vinyl Chloride	0.01	lb/hr	0.00
1,2 Dichloroethene	0.03	lb/hr	0.00
1,2-Dichloroethane	BRT	lb/hr	0.00
Toluene	BRT	lb/hr	0.00
Xylene	BRT	lb/hr	0.00
1,1,2-Trichloroethane	BRT	lb/hr	0.00

Notes:
BRT - Below reporting thresholds

Environmental Construction Operation & Remediation

ECOR Federal Services, LLC
21 S High St, 2nd Floor
West Chester, PA 19382
(484) 887-7510
(610) 431-2852 (fax)

April 18, 2011

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

SUBJECT: **GM-38 GROUNDWATER REMEDIATION AT NWIRP BETHPAGE, NY MONTHLY REPORT ON GROUNDWATER AND AIR DISCHARGE FOR DER SITE # 1-30-003B-OU 2**

Dear Mr. Scharf:

In accordance with groundwater treatment system operational requirements for DER Site # 1-30-003B-OU 2, ECOR Federal Services, LLC. (ECOR) on behalf of the United States Department of the Navy is submitting this monthly report of the groundwater and air discharge results for the GM-38 system. The enclosed data, presented as Attachment 1, is for treatment system operations from March 1 through March 31, 2011. All constituents were within permit limitations. It should be noted that effective water and vapor flowrates were reduced during the reporting period due to the shutdown of the plant on March 23 caused by the failure of the air stripper pump P-4A, however, when the plant was operational, instantaneous flowrates were within normal operating parameters.

Please do not hesitate contact me with any questions regarding this letter or report at office phone # 610-840-9200 or via email at lapp@ecor-solutions.com

Sincerely,
ECOR Federal Services, LLC.

Matthew Lapp
Project Engineer

Attachments: Groundwater and Air Sampling Results from March 1 - 31, 2011

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, Navy Mid-Atlantic RPM
Al Taormina, ECOR Inc.
GM-38 Project Site File

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
March 2011

SPDES Parameters	**Daily Maximum**	**Units**	**March 2011**			
Process Stream			**RW-1**	**RW-3**	**Influent**	**Effluent**
Well Depth		ft	500	500	N/A	N/A
Screened Interval		ft	470-500	470-500	N/A	N/A
Sampling Date			3/21/11			
Average Flowrate		GPM	401	129	530	551
Total Flow		gallons	NR	NR	23,670,360	24,591,060
pH (range)	5.5 - 8.5	SU	NR	NR	6.06	6.97
1,1-Dichloroethane	5	µg/l	2.8	2.0	2.6	ND
1,2-Dichloroethane	0.6	µg/l	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/l	6.8	2.0	5.6	ND
Carbon Tetrachloride	N/A	µg/l	0.62 J	ND J	0.47 J	ND
cis 1,2-Dichloroethene	5	µg/l	61.5	1.9	47.0	ND
trans 1,2-Dichloroethene	5	µg/l	1.1	ND	0.8	ND
Tetrachloroethene	5	µg/l	100	ND	76	ND
1,1,1-Trichloroethene	5	µg/l	7.5	1.2	6.0	ND
Trichloroethene	5	µg/l	330	285	319	0.28 J
Vinyl Chloride	2	µg/l	6.9	ND	5.2	ND
Mercruy	0.25	µg/l	< 0.20	<0.20	<0.20	<0.20

Notes:
J, B - Estimated result less than reporting limit
ND - Not Detected
NR - Not Recorded
N/A - Not Applicable

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
March 2011

DAR Parameters	**SGC**	**Units**	**March 2011**	
Process Stream			**Influent**	**Effluent**
Sampling Date			3/11/11	
Average Flowrate		CFM		4388
Total Flow		ft^3	NR	195,888,690
Total Flow		m^3	NR	5,543,650
Trichloroethene	14000	$\mu g/m^3$	10000	28
Tetrachloroethene	1000	$\mu g/m^3$	2300	5.8
Vinyl Chloride	180000	$\mu g/m^3$	76	ND
trans 1,2-Dichloroethene	-	$\mu g/m^3$	ND	ND
cis 1,2-Dichloroethene	-	$\mu g/m^3$	750	ND
1,2-Dichloroethene (total)	-	$\mu g/m^3$	750	ND
1,2-Dichloroethane	-	$\mu g/m^3$	ND	ND
Toluene	37000	$\mu g/m^3$	ND	ND
Xylene	4300	$\mu g/m^3$	ND	ND
1,1,2-Trichloroethane	-	$\mu g/m^3$	ND	ND

Notes:
ND - Not detected
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
March 2011

DAR Parameters	Discharge Limit	Units	March 2011
Sampling Date			3/11/11
Average Flowrate		CFM	4388
Total Flow		ft^3	195,888,690
Total Flow		m^3	5,543,650
Trichloroethene	0.09	lb/hr	0.0005
Tetrachloroethene	0.02	lb/hr	0.0001
Vinyl Chloride	0.01	lb/hr	0.00
1,2 Dichloroethene	0.03	lb/hr	0.00
1,2-Dichloroethane	BRT	lb/hr	0.00
Toluene	BRT	lb/hr	0.00
Xylene	BRT	lb/hr	0.00
1,1,2-Trichloroethane	BRT	lb/hr	0.00

Notes:
BRT - Below reporting thresholds

APPENDIX B
NYSDEC Air Permit Equivalent Approval

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Remedial Action A
625 Broadway, 11th Floor
Albany, New York 12233-7015
Phone: (518) 402-9625 • Fax: (518) 402-9022
Website: www.dec.state.ny.us

Alexander P. Grannis
Commissioner

July 24, 2009

Lora Fly, Project Manager
Naval Facilities Engineering Command-Midlant
9742 Maryland Avenue
Norfolk, VA 23511-3095

RE: Naval Weapons Industrial Research Plant(NWIRP) Site-Bethpage, NYSDEC No. 1-30-003B.
Grumman Aerospace Site, NYSDEC Site No. 1-30-003A

Dear Ms. Fly:

Tetra Tech FW, on behalf of the Department of the Navy (Navy), has submitted the enclosed New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources (DAR) Air Permit Application as a permit equivalent. This DAR Air permit equivalent is for the air stripper discharge at the GM 38 Area groundwater remediation system, Near Broadway and North Herman Avenue in Bethpage, NY. The NYSDEC Division of Environmental Remediation (DER) has reviewed the permit equivalent and, by means of this letter approves the GM 38 Area remedy air discharge for immediate operation.

The GM 38 Area remedial system utilizes the best available control technology (BACT) with activated carbon followed by potassium permanganate impregnated xeolite resin. The air discharge will be periodically monitored at start up and will be added for routine monitoring in the operation, maintenance and monitoring (OMM) plan, to be submitted shortly for Departmental review.

If you have any questions, please contact me at your earliest convenience at (518)402-9620.

Sincerely,

Steven M. Scharf, P.E.
Project Engineer
Division of Environmental Remediation
Bureau of Remedial Action A

Enclosure
ec/w/enc:
J. Swartwout/S. Scharf/File
W. Parish, Region 1 NYSDEC
A. J. Shah, region 1 NYSDEC
S. Patselos, Tetra Tech FW
J. Cofman, Northrop Grumman]
edocs: Region 1, Nassau, Oyster Bay (T): Grumman Aerospace 130003A-OU2-OMM and NWIRP Bethpage 130003B-OU2-OMM

New York State Department of Environmental Conservation
Air Permit Application

DEC ID	APPLICATION ID	OFFICE USE ONLY
- -	- /	/ /

Section I - Certification

Title V Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the information is, true, accurate and complete I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations

Responsible Official	Title
Signature	Date / /

State Facility Certification

I certify that this facility will be operated in conformance with all provisions of existing regulations.

Responsible Official	Title
Signature	Date / /

Section II - Identification Information

Title V Facility Permit N/A
❑ New ❑ Significant Modification ❑ Administrative Amendment
❑ Renewal ❑ Minor Modification General Permit Title:

State Facility Permit N/A
❑ New ❑ Modification
General Permit Title:

☒ Application involves construction of new facility ❑ Application involves construction of new emission unit(s)

Owner/Firm

Name US Navy/NAVFAC Midlant

Street Address 9742 Maryland Ave, Bldg Z-144

City	State	Country	Zip
Norfolk	VA	US	23511-3095

Owner Classification ☒ Federal ❑ State ❑ Municipal ❑ Corporation/Partnership ❑ Individual

Taxpayer ID

Facility

❑ Confidential

Name Naval Weapons Industrial Reserve Plant (NWIRP) GM-38 Area

Location Address Bethpage

❑ City / ☒ Town / ❑ Village Oyster Bay, New York Zip 11714

Project Description

❑ Continuation Sheet(s)

Air stripping of groundwater to remove VOCs

Owner/Firm Contact Mailing Address

Name (Last, First, Middle Initial) Fly, Lora		Phone No. (757) 444-0781	
Affiliation Department of the Navy	Title Remedial PM	Fax No. ( )	
Street Address 9742 Maryland Ave. Bldg Z-144			
City Norfolk	State VA	Country US	Zip 23511-3095

Facility Contact Mailing Address

Name (Last, First, Middle Initial) Same		Phone No. ( )	
Affiliation	Title	Fax No. ( )	
Street Address			
City	State	Country	Zip

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section III - Facility Information

Classification

❑ Hospital ❑ Residential ❑ Educational/Institutional ❑ Commercial ☒ Industrial ❑ Utility

Affected States (Title V Only) N/A

❑ Vermont ❑ Massachusetts ❑ Rhode Island ❑ Pennsylvania Tribal Land:_____
❑ New Hampshire ❑ Connecticut ❑ New Jersey ❑ Ohio Tribal Land:_____

SIC Codes

9999												

Facility Description ❑ Continuation Sheet(s)

Groundwater Remediation by Air Stripping followed by Vapor-Phase GAC for emission control

Compliance Statements (Title V Only) N/A

I certify that as of the date of this application the facility is in compliance with all applicable requirements: ❑ YES ❑ NO

If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

- ❑ This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.
- ❑ For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.
- ❑ Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements N/A ❑ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
	CERCLA	all substantive requirements							

Facility State Only Requirements ❑ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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Section III - Facility Information (continued)

Facility Compliance Certification N/A ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

❑ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		- -	

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ❑ Record Keeping/Maintenance Procedures

Description

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description

Facility Emissions Summary ❑ Continuation Sheet(s)

CAS No.	Contaminant Name	PTE (lbs/yr)	PTE Range Code	Actual (lbs/yr)
NY075 - 00 - 5	PM-10			
NY075 - 00 - 0	PARTICULATES			
7446 - 09 - 5	SULFUR DIOXIDE			
NY210 - 00 - 0	OXIDES OF NITROGEN			
630 - 08 - 0	CARBON MONOXIDE			
7439 - 92 - 1	LEAD			
NY998 - 00 - 0	VOC	117		
NY100 - 00 - 0	HAP	110		
0079 - 01 - 6	Trichloroethylene	99		
00075 - 01 - 4	Vinyl Chloride	3.7		
00540 - 59 - 0	1,2-Dichloroethylene	7.3		
- -				
- -				

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information

Emission Unit Description

❑ Continuation Sheet(s)

EMISSION UNIT	0 - 0 0 E U 1

Air Stripper AS-1 for groundwater remediation, provided with activated carbon for emission control. The emission point is stack 00ST-1. The 2-stage VGAC is followed by a 3rd vessel containing a potassium permanganate zeolite media for increased VC capacity.

Building

❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation
BLDG-1	Treatment Plant	75	75	0

Emission Point

❑ Continuation Sheet(s)

EMISSION PT.	0 0 S T 1					
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
90	40	15	36	80		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
19	8020			BLDG-1	50	
EMISSION PT.						
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal

Emission Source/Control

❑ Continuation Sheet(s)

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
AS-1	I				048	Granular Act. Carbon	Air Stripping Column

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

Process Information

❑ Continuation Sheet(s)

EMISSION UNIT	0 - 0 0 E U 1	PROCESS	P R 1

Description

The remedial system is air stripping, using a packed column at a groundwater flow rate of 1,100 gpm (plus 100 gpm recycle, for a total of 1,200 gpm). Vapor phase treatment includes the use of 3 vessels, a 2-stage GAC unit, followed by a 3rd vessel containing a potassium permanganate impregnated zeolite for increased VC capacity. Prior to entering the vapor-phase GAC adsorption system, the humidity of the air stripper exhaust is reduced to approximately 50 percent or less to optimize the efficiency of the vapor-phase GAC.

Air Stripper AS-1: Existing. Type: Vertical, Cylindrical Construction: Aluminum

Packing: 25-foot Jaeger Tripack. Dimensions: 10.0 ft. Dia x 47 ft. H

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description

❑ Confidential ☒ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		
	24	365	BLDG-1	Main

Emission Source/Control Identifier(s)

AS-1							

EMISSION UNIT	-	PROCESS

Description

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Source/Control Identifier(s)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
-													
-													

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
-													
-													

Emission Unit Compliance Certification ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	212							

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
0-00EU1	00ST1	PR1	AS-1	00079 - 01 - 6	Trichloroethylene

Monitoring Information

❑ Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Monthly grab samples analyzed for VOCs from the vapor phase treatment system influent, effluent and two intermediate locations.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
3,125		255	micrograms per cubic meter

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Instantaneous	05	Monthly	10	Upon Request

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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Section IV - Emission Unit Information (continued)

Determination of Non-Applicability (Title V Only) N/A ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement
-				

Description

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement
-				

Description

Process Emissions Summary ❑ Continuation Sheet(s)

EMISSION UNIT	0 - 0 0 E U 1				PROCESS	P R 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
0079 - 01 - 6	Trichloroethylene			95	1.87	02

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
0.09	99			02		

EMISSION UNIT	0 - 0 0 E U 1				PROCESS	P R 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
00075 - 01 - 4	Vinyl Chloride			95	0.17	03

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
0.01	3.7			02		

EMISSION UNIT	0 - 0 0 E U 1				PROCESS	P R 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined
000540 - 59 - 0	1,2-Dichloroethylene			95	0.6	02

PTE (lbs/hr)	PTE (lbs/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lbs/hr)	Actual (lbs/yr)
0.03	7.3			02		

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
- -

Section IV - Emission Unit Information (continued)

EMISSION UNIT	Emission Unit Emissions Summary			❑ Continuation Sheet(s)
0 - 0 0 E U 1				
CAS No.	Contaminant Name			
00107- 06 - 2	1,2-Dichloroethane			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
13.4	Below Reporting Threshold BRT			
CAS No.	Contaminant Name			
00108 - 88 - 3	Toluene			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
72.7	BRT	BRT		
CAS No.	Contaminant Name			
01330- 20 - 7	Xylene			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
77.1	BRT	BRT		
CAS No.	Contaminant Name			
- -	1,1,2-Trichloroethane			
ERP (lbs/yr)	PTE Emissions		Actual	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT		

Compliance Plan

❑ Continuation Sheet(s)

For any emission units which are not in compliance at the time of permit application, the applicant shall complete the following

Consent Order — Certified progress reports are to be submitted every 6 months beginning ____/____/____

Emission Unit	Process	Emission Source	Applicable Federal Requirement									
			Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-												

Remedial Measure / Intermediate Milestones	R/I	Date Scheduled

DEC ID
- -

Section IV - Emission Unit Information (continued)

Request for Emission Reduction Credits

❑ Continuation Sheet(s)

EMISSION UNIT -

Emission Reduction Description

Contaminant Emission Reduction Data

Baseline Period / / to / /

Reduction	
Date	Method
/ /	

CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
- -			
- -			
- -			

Facility to Use Future Reduction

Name

APPLICATION ID - - /

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Use of Emission Reduction Credits

❑ Continuation Sheet(s)

EMISSION UNIT -

Proposed Project Description

Contaminant Emissions Increase Data

CAS No.	Contaminant Name	PEP (lbs/yr)
- -		

Statement of Compliance

❑ All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.

Source of Emission Reduction Credit - Facility

Name

PERMIT ID - - /

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Emission Unit	CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
-	- -			
-	- -			
-	- -			

DEC ID
- -

Supporting Documentation

- ☒ P.E. Certification (form attached)
- ☐ List of Exempt Activities (form attached)
- ☒ Plot Plan
- ☐ Methods Used to Determine Compliance (form attached)
- ☒ Calculations
- ☐ Air Quality Model (_____ / _____ / _____)
- ☐ Confidentiality Justification
- ☐ Ambient Air Monitoring Plan (_____ / _____ / _____)
- ☐ Stack Test Protocols/Reports (_____ / _____ / _____)
- ☐ Continuous Emissions Monitoring Plans/QA/QC (_____ / _____ / _____)
- ☐ MACT Demonstration (_____ / _____ / _____)
- ☐ Operational Flexibility: Description of Alternative Operating Scenarios and Protocols
- ☐ Title IV: Application/Registration
- ☐ ERC Quantification (form attached)
- ☐ Use of ERC(s) (form attached)
- ☐ Baseline Period Demonstration
- ☐ Analysis of Contemporaneous Emission Increase/Decrease
- ☐ LAER Demonstration (_____ / _____ / _____)
- ☐ BACT Demonstration (_____ / _____ / _____)
- ☐ Other Document(s): _____ (/ /)

_____ (/ /)
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ATTACHMENT 1
Emission Estimate

Feed Water Flow	1,100	gpm: max or normal
	250	m^3/hr
Water Flow Including Recycle	1,200	gpm: max or normal
	273	m^3/hr
Air Flow	8,000	cfm
	13,592	m^3/hr
A/W vol ratio	50	

EXAMPLE EMISSION CALC: Vinyl Chloride

4.8 ug/L x 1000 L/m^3 x 250 m^3 water/13,623 m^3 air = 88 ug/m^3

Name	CAS Number	Toxicity: H/M/L[2]	VOC[3]	HAP[4]	GW Conc.[1] Max ug/L	GW Conc.[1] Avg ug/L	Effluent Conc[1] Max ug/L	Effluent Conc[1] Avg ug/L	Uncontrolled Stripper Exhaust Max lb/day	Avg lb/day	Max lb/hr	Avg lb/hr	Max gm/sec	Avg gm/sec	Max ug/m^3	Avg ug/m^3
1,1,1-Trichloroethane (Methyl Chloroform)	00071-55-6	L	**No**	Yes	3	3.0			0.04	0.04	0.00	0.00	2.08E-04	2.08E-04	55	55
1,1,2-Trichloroethane	00079-00-5	M	Yes	Yes	3.5	0.3			0.05	0.00	0.00	0.00	2.43E-04	2.08E-05	64	6
1,1-Dichloroethane	00075-34-3	L	Yes	Yes	4	0.7			0.05	0.01	0.00	0.00	2.77E-04	4.85E-05	74	13
1,2-Dichloroethane	00107-06-2	M	Yes	Yes	3	1.0	0.3	0.1	0.04	0.01	0.00	0.00	1.87E-04	6.24E-05	55	18
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	M	Yes	Yes	9	1.6			0.12	0.02	0.00	0.00	6.24E-04	1.11E-04	165	29
1,2-Dichloroethylene	00540-59-0	M	Yes	**No**	1,100	31.5	1.3	0.0	14.51	0.42	0.60	0.02	7.62E-02	2.18E-03	20,219	579
Benzene	00071-43-2	H	Yes	Yes	4	0.1			0.05	0.00	0.00	0.00	2.77E-04	6.94E-06	74	2
Carbon Tetrachloride	00056-23-5	H	Yes	Yes	4	0.1			0.05	0.00	0.00	0.00	2.77E-04	6.94E-06	74	2
Chlorobenzene (Monochlorobenzene)	00108-90-7	M	Yes	Yes	1	0.1			0.01	0.00	0.00	0.00	6.94E-05	6.94E-06	18	2
Chloroform	00067-66-3	M	Yes	Yes	2	0.8			0.03	0.01	0.00	0.00	1.39E-04	5.55E-05	37	15
Methyl Tert Butyl Ether	01634-04-4	M	Yes	Yes	2	0.1			0.03	0.00	0.00	0.00	1.39E-04	6.94E-06	37	2
Tetrachloroethylene	00127-18-4	M	Yes	Yes	900	33.8	0.9	0.0	11.88	0.45	0.49	0.02	6.24E-02	2.34E-03	16,543	621
Toluene	00108-88-3	L	Yes	Yes	15	0.7			0.20	0.01	0.01	0.00	1.04E-03	4.85E-05	276	13
Trichloroethylene	00079-01-6	M	Yes	Yes	3,400	411.5	4.5	0.5	44.86	5.43	1.87	0.23	2.35E-01	2.85E-02	62,494	7,564
Vinyl chloride	00075-01-4	H	Yes	Yes	300	4.8	0.0	0.0	3.96	0.06	0.17	0.00	2.08E-02	3.33E-04	5,514	88
Xylenes	01330-20-7	M	Yes	Yes	16	0.2			0.21	0.00	0.01	0.00	1.11E-03	1.39E-05	294	4
Total VOCs					5,764	487.3	7.0	0.6	76.05	6.43	3.17	0.27				
Total HAPs					4,667	458.8	5.7	0.6	61.57	6.05	2.57	0.25				

Total Uncontrolled VOC	2,347	lb/yr
Total Uncontrolled HAP	2,209	lb/yr

1. Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
2. Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Toxics Section, September 10, 2007.
3. Source: 6 NYCRR Part 200 1(cg)
4. Source: 6 NYCRR Part 200.1(ag)

ATTACHMENT 1
Emission Estimate

Feed Water Flow	1,100	gpm: max or normal
	250	m^3/hr
Water Flow Including Recycle	1,200	gpm: max or normal
	273	m^3/hr
Air Flow	8,000	cfm
	13,592	m^3/hr
A/W vol ratio	50	

Name	CAS Number	Toxicity: H/M/L[2]	VOC[3]	HAP[4]	Control by GAC	Max lb/day	Avg lb/day	Controlled Stripper Exhau Max gm/sec	Avg gm/sec
1,1,1-Trichloroethane (Methyl Chloroform)	00071-55-6	L	**No**	Yes	95%	0.00	0.00	1.04E-05	1.04E-05
1,1,2-Trichloroethane	00079-00-5	M	Yes	Yes	95%	0.00	0.00	1.21E-05	1.04E-06
1,1-Dichloroethane	00075-34-3	L	Yes	Yes	95%	0.00	0.00	1.39E-05	2.43E-06
1,2-Dichloroethane	00107-06-2	M	Yes	Yes	95%	0.00	0.00	9.36E-06	3.12E-06
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	M	Yes	Yes	95%	0.01	0.00	3.12E-05	5.55E-06
1,2-Dichloroethylene	00540-59-0	M	Yes	**No**	95%	0.73	0.02	3.81E-03	1.09E-04
Benzene	00071-43-2	H	Yes	Yes	95%	0.00	0.00	1.39E-05	3.47E-07
Carbon Tetrachloride	00056-23-5	H	Yes	Yes	95%	0.00	0.00	1.39E-05	3.47E-07
Chlorobenzene (Monochlorobenzene)	00108-90-7	M	Yes	Yes	95%	0.00	0.00	3.47E-06	3.47E-07
Chloroform	00067-66-3	M	Yes	Yes	95%	0.00	0.00	6.94E-06	2.77E-06
Methyl Tert Butyl Ether	01634-04-4	M	Yes	Yes	95%	0.00	0.00	6.94E-06	3.47E-07
Tetrachloroethylene	00127-18-4	M	Yes	Yes	95%	0.59	0.02	3.12E-03	1.17E-04
Toluene	00108-88-3	L	Yes	Yes	95%	0.01	0.00	5.20E-05	2.43E-06
Trichloroethylene	00079-01-6	M	Yes	Yes	95%	2.24	0.27	1.18E-02	1.43E-03
Vinyl chloride	00075-01-4	H	Yes	Yes	95%	0.20	0.00	1.04E-03	1.66E-05
Xylenes	01330-20-7	M	Yes	Yes	95%	0.01	0.00	5.55E-05	6.94E-07
Total VOCs						3.80	0.32		
Total HAPs						3.08	0.30		

Total Controlled VOC	117	lb/yr
Total Controlled HAP	110	lb/yr

1. Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
2. Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Tox
3. Source: 6 NYCRR Part 200.1(cg)
4. Source: 6 NYCRR Part 200.1(ag)

ATTACHMENT 2
AIR SCREENING ANALYSIS:
Annual

BETHPAGE SCREENING ANALYSIS					1-Hour Impact	405.7	(ug/m^3)	
ANNUAL IMPACTS COMPARED TO ANNUAL GUIDELINE CONCENTRATIONS (AGCs)					Annual Impact	32.456	(ug/m^3)	
		NYSDEC Guideline AGC	**Estimated Emissions**		**Predicted Annual Impact**		**Maximum Percent of AGC**	
Pollutant	**CAS Number**	(ug/m^3)	**Uncontrolled** (g/s)	**Controlled** (g/s)	**Uncontrolled** (ug/m^3)	**Controlled** (ug/m^3)	**Uncontrolled** Pct	**Controlled** Pct
1,1,1-Trichloroethane (Methyl Chloroform)	00071-55-6	1000.00	2.08E-04	1.04E-05	0.0068	0.0003	0.0%	0.0%
1,1,2-Trichloroethane	00079-00-5	1.40	2.08E-05	1.04E-06	0.0007	0.0000	0.0%	0.0%
1,1-Dichloroethane	00075-34-3	0.63	4.85E-05	2.43E-06	0.0016	0.0001	0.3%	0.0%
1,2-Dichloroethane	00107-06-2	0.04	6.24E-05	3.12E-06	0.0020	0.0001	5.3%	0.3%
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	70.00	1.11E-04	5.55E-06	0.0036	0.0002	0.0%	0.0%
1,2-Dichloroethylene	00540-59-0	63.00	2.18E-03	1.09E-04	0.0709	0.0035	0.1%	0.0%
Benzene	00071-43-2	0.13	6.94E-06	3.47E-07	0.0002	0.0000	0.2%	0.0%
Carbon Tetrachloride	00056-23-5	0.07	6.94E-06	3.47E-07	0.0002	0.0000	0.3%	0.0%
Chlorobenzene (Monochlorobenzene)	00108-90-7	110.00	6.94E-06	3.47E-07	0.0002	0.0000	0.0%	0.0%
Chloroform	00067-66-3	0.04	5.55E-05	2.77E-06	0.0018	0.0001	4.2%	0.2%
Methyl tert-Butyl Ether	01634-04-4	3000.00	6.94E-06	3.47E-07	0.0002	0.0000	0.0%	0.0%
Tetrachloroethylene	00127-18-4	1.00	2.34E-03	1.17E-04	0.0761	0.0038	7.6%	0.4%
Toluene	00108-88-3	5000.00	4.85E-05	2.43E-06	0.0016	0.0001	0.0%	0.0%
Trichloroethylene	00079-01-6	0.50	2.85E-02	1.43E-03	0.9252	0.0463	**185.0%**	9.3%
Vinyl Chloride	00075-01-4	0.11	3.33E-04	1.66E-05	0.0108	0.0005	9.8%	0.5%
Xylenes	01330-20-7	100.00	1.39E-05	6.94E-07	0.0005	0.0000	0.0%	0.0%

ATTACHMENT 2
AIR SCREENING ANALYSIS:
Short term

BETHPAGE SCREENING ANALYSIS						1-Hour Impact	405.7	(ug/m^3)
SHORT-TERM IMPACTS COMPARED TO SHORT-TERM GUIDELINE CONCENTRATIONS (SGCs)						Annual Impact	32.456	(ug/m^3)
		NYSDEC Guideline SGC	**Estimated Emissions**		**Predicted Short-term Impact**		**Maximum Percent of SGC**	
			Uncontrolled	**Controlled**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Pollutant	**CAS Number**	(ug/m^3)	(g/s)	(g/s)	(ug/m^3)	(ug/m^3)	Pct	Pct
1,1,1-Trichloroethane (Methyl Chloroform)	00071-55-6	68000.00	2.08E-04	1.04E-05	0.084	0.004	0.0%	0.0%
1,1,2-Trichloroethane	00079-00-5	-	2.43E-04	1.21E-05	0.098	0.005	-	-
1,1-Dichloroethane	00075-34-3	-	2.77E-04	1.39E-05	0.113	0.006	-	-
1,2-Dichloroethane	00107-06-2	-	1.87E-04	9.36E-06	0.076	0.004	-	-
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	-	6.24E-04	3.12E-05	0.253	0.013	-	-
1,2-Dichloroethylene	00540-59-0	-	7.62E-02	3.81E-03	30.915	1.546	-	-
Benzene	00071-43-2	1300.00	2.77E-04	1.39E-05	0.113	0.006	0.0%	0.0%
Carbon Tetrachloride	00056-23-5	1900.00	2.77E-04	1.39E-05	0.113	0.006	0.0%	0.0%
Chlorobenzene (Monochlorobenzene)	00108-90-7	-	6.94E-05	3.47E-06	0.028	0.001	-	-
Chloroform	00067-66-3	150.00	1.39E-04	6.94E-06	0.056	0.003	0.0%	0.0%
Methyl tert-Butyl Ether	01634-04-4	-	1.39E-04	6.94E-06	0.056	0.003	-	-
Tetrachloroethylene	00127-18-4	1000.00	6.24E-02	3.12E-03	25.298	1.265	2.5%	0.1%
Toluene	00108-88-3	37000.00	1.04E-03	5.20E-05	0.422	0.021	0.0%	0.0%
Trichloroethylene	00079-01-6	14000.00	2.35E-01	1.18E-02	95.541	4.777	0.7%	0.0%
Vinyl Chloride	00075-01-4	180000.00	2.08E-02	1.04E-03	8.441	0.422	0.0%	0.0%
Xylenes	01330-20-7	4300.00	1.11E-03	5.55E-05	0.450	0.023	0.0%	0.0%

ATTACHMENT 2
AIR SCREENING ANALYSIS:
Short term

BETHPAGE SCREENING ANALYSIS						1-Hour Impact	405.7	(ug/m^3)
SHORT-TERM IMPACTS COMPARED TO SHORT-TERM GUIDELINE CONCENTRATIONS (SGCs)						Annual Impact	32.456	(ug/m^3)
		NYSDEC Guideline SGC	**Estimated Emissions**		**Predicted Short-term Impact**		**Maximum Percent of SGC**	
			Uncontrolled	**Controlled**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Pollutant	**CAS Number**	(ug/m^3)	(g/s)	(g/s)	(ug/m^3)	(ug/m^3)	Pct	Pct
1,1,1-Trichloroethane (Methyl Chloroform)	00071-55-6	68000.00	2.08E-04	1.04E-05	0.084	0.004	0.0%	0.0%
1,1,2-Trichloroethane	00079-00-5	-	2.43E-04	1.21E-05	0.098	0.005	-	-
1,1-Dichloroethane	00075-34-3	-	2.77E-04	1.39E-05	0.113	0.006	-	-
1,2-Dichloroethane	00107-06-2	-	1.87E-04	9.36E-06	0.076	0.004	-	-
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	-	6.24E-04	3.12E-05	0.253	0.013	-	-
1,2-Dichloroethylene	00540-59-0	-	7.62E-02	3.81E-03	30.915	1.546	-	-
Benzene	00071-43-2	1300.00	2.77E-04	1.39E-05	0.113	0.006	0.0%	0.0%
Carbon Tetrachloride	00056-23-5	1900.00	2.77E-04	1.39E-05	0.113	0.006	0.0%	0.0%
Chlorobenzene (Monochlorobenzene)	00108-90-7	-	6.94E-05	3.47E-06	0.028	0.001	-	-
Chloroform	00067-66-3	150.00	1.39E-04	6.94E-06	0.056	0.003	0.0%	0.0%
Methyl tert-Butyl Ether	01634-04-4	-	1.39E-04	6.94E-06	0.056	0.003	-	-
Tetrachloroethylene	00127-18-4	1000.00	6.24E-02	3.12E-03	25.298	1.265	2.5%	0.1%
Toluene	00108-88-3	37000.00	1.04E-03	5.20E-05	0.422	0.021	0.0%	0.0%
Trichloroethylene	00079-01-6	14000.00	2.35E-01	1.18E-02	95.541	4.777	0.7%	0.0%
Vinyl Chloride	00075-01-4	180000.00	2.08E-02	1.04E-03	8.441	0.422	0.0%	0.0%
Xylenes	01330-20-7	4300.00	1.11E-03	5.55E-05	0.450	0.023	0.0%	0.0%

03/16/09
11:26:15

```
 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 96043 ***

Bethpage GM-38 Air Stripper Uncontrolled

SIMPLE TERRAIN INPUTS:
   SOURCE TYPE              =        POINT
   EMISSION RATE (G/S)      =      1.00000
   STACK HEIGHT (M)         =      12.2000
   STK INSIDE DIAM (M)      =        .9100
   STK EXIT VELOCITY (M/S)=        5.7700
   STK GAS EXIT TEMP (K)    =     294.0000
   AMBIENT AIR TEMP (K)     =     293.0000
   RECEPTOR HEIGHT (M)      =        .0000
   URBAN/RURAL OPTION       =        URBAN
   BUILDING HEIGHT (M)      =       7.6000
   MIN HORIZ BLDG DIM (M) =       22.9000
   MAX HORIZ BLDG DIM (M) =       22.9000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.


BUOY. FLUX =      .040 M**4/S**3;  MOM. FLUX =     6.869 M**4/S**2.

*** FULL METEOROLOGY ***

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

  DIST     CONC              U10M   USTK  MIX HT   PLUME   SIGMA   SIGMA
   (M)   (UG/M**3)   STAB   (M/S)  (M/S)    (M)    HT (M)   Y (M)   Z (M)  DWASH
-------  ----------  ----  -----  -----  ------  ------  ------  ------  -----
    10.   .1323E-07    1     1.5    1.5   480.0   22.39    3.65    2.99    NO
   100.   278.3        3     1.0    1.0   320.0   27.34   22.00   20.46    NO
   200.   339.9        6     1.0    1.1 10000.0   20.81   21.31   14.25    NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND    10. M:
   201.   339.9        6     1.0    1.1 10000.0   20.81   21.51   14.37    NO

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    2. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

  DIST     CONC              U10M   USTK  MIX HT   PLUME   SIGMA   SIGMA
   (M)   (UG/M**3)   STAB   (M/S)  (M/S)    (M)    HT (M)   Y (M)   Z (M)  DWASH
-------  ----------  ----  -----  -----  ------  ------  ------  ------  -----
   210.   405.7        6     1.0    1.1 10000.0   18.81   22.32   14.86    NO
   300.   307.9        6     1.0    1.1 10000.0   18.81   31.28   20.08    NO
   400.   219.2        6     1.0    1.1 10000.0   18.81   40.93   25.42    NO
```

500.	162.3	6	1.0	1.1	10000.0	18.81	50.27	30.34	NO
600.	125.2	6	1.0	1.1	10000.0	18.81	59.32	34.91	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 210. M:

210.	405.7	6	1.0	1.1	10000.0	18.81	22.32	14.86	NO

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 9. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
610.	133.2	6	1.0	1.1	10000.0	11.81	60.21	35.35	NO
700.	107.4	6	1.0	1.1	10000.0	11.81	68.10	39.19	NO
800.	87.22	6	1.0	1.1	10000.0	11.81	76.63	43.22	NO
900.	72.75	6	1.0	1.1	10000.0	11.81	84.93	47.03	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 610. M:

610.	133.2	6	1.0	1.1	10000.0	11.81	60.21	35.35	NO

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 11. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1000.	62.47	6	1.0	1.1	10000.0	9.81	93.00	50.66	NO
1100.	54.05	6	1.0	1.1	10000.0	9.81	100.86	54.11	NO
1200.	47.42	6	1.0	1.1	10000.0	9.81	108.53	57.42	NO
1300.	42.10	6	1.0	1.1	10000.0	9.81	116.01	60.60	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1000. M:

1000.	62.47	6	1.0	1.1	10000.0	9.81	93.00	50.66	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

****
* SUMMARY OF TERRAIN HEIGHTS ENTERED FOR *
* SIMPLE ELEVATED TERRAIN PROCEDURE *
****

TERRAIN HT (M)	DISTANCE RANGE (M) MINIMUM	MAXIMUM
0.	10.	200.
2.	210.	600.
9.	610.	920.

```
          11.          1000.        1300.

****************************************
     *** REGULATORY (Default) ***
    PERFORMING CAVITY CALCULATIONS
  WITH ORIGINAL SCREEN CAVITY MODEL
          (BRODE, 1988)
****************************************


 *** CAVITY CALCULATION - 1 ***        *** CAVITY CALCULATION - 2 ***
  CONC (UG/M**3)       =    .0000        CONC (UG/M**3)       =    .0000
  CRIT WS @10M (M/S)   =   99.99         CRIT WS @10M (M/S)   =   99.99
  CRIT WS @ HS (M/S)   =   99.99         CRIT WS @ HS (M/S)   =   99.99
  DILUTION WS (M/S)    =   99.99         DILUTION WS (M/S)    =   99.99
  CAVITY HT (M)        =    7.84         CAVITY HT (M)        =    7.84
  CAVITY LENGTH (M)    =   22.86         CAVITY LENGTH (M)    =   22.86
  ALONGWIND DIM (M)    =   22.90
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APPENDIX C
Field Data Sheets

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:	NWIRP Bethpage GM-38	Project No.:	EF032.300
Location:	Bethpage, NY	Personnel:	GG
Weather Conditions:		Measuring Device:	Heron Dipper T
Tidally Influenced:	Yes ___ No X	Remarks:	

Monitoring Well ID	Date	Time	Total Well Depth (feet)*	Depth to Water (feet)*	Thickness of Water Column (feet)*	PID (ppm)	Comments
RW1-MW1	3/24/11	1000		33.20			
RW1-MW2		1010		32.28			
RW1-MW3		1015		27.08			
RW2-MW1		1020		37.31			
RW2-MW2		1025		33.61			
RW2-MW3		1040		33.05			
RW3-MW1		0900		36.18			
RW3-MW2		0910		37.52			
RW3-MW3		1030		37.46			
RW3-MW4		1035		38.51			
TP-1		0930		36.55			
IW-1-MW-1		0945		35.07			
GM38D	---	---	---	---	---	---	Not accessible
GM38D2	---	---	---	---	---	---	Not accessible

*All measurements to the nearest 0.01 foot

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 1 - MW 3
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 1300							
Purge Method: Low Flow	Clear	4.39	147	N/A	1.46	13.14	348.1

PURGE DATA:

Date: 3/25/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 27.08
Start Purge (hrs): 1235
End Purge (hrs): 1300
Total Purge Time (min): 25 min
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/25/11

Sample ID No.: RW1 - MW3

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
1235			4.96	147	N/A	2.90	12.65	349.1	
1240			4.46	147		2.39	13.17	355.0	
1245			4.39	147		1.63	13.17	355.3	
1250			4.45	147		1.60	13.15	350.3	
1255			4.42	147		1.56	13.15	351.2	
1300			4.39	147		1.46	13.14	348.1	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 3- MW 1
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 0900							
Purge Method: Low Flow	Clear	3 54	106	N/A	5.29	11.71	398.2

PURGE DATA:

Date: 3-25-11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 36.18
Start Purge (hrs): 0820
End Purge (hrs): 0900
Total Purge Time (min): 40
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD (circled)

Duplicate ID No.: NWIRP-GM38-RW3MW1-3251-DUP

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/25/11

Sample ID No.: RW 3- MW 1

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
0820			3.47	103	N/A	5.32	11.64	400.2	
0825			3.45	103		5.31	11.64	399.6	
0830			3.46	103		5.30	11.64	398.0	
0835			3.46	103		5.30	11.64	397.1	
0840			3.48	104		5.30	11.63	399.0	
0845			3.47	104		5.26	11.62	400.3	
0850			3.50	105		5.27	11.70	402.0	
0855			3.52	106		5.28	11.70	401.1	
0900			3.54	106		5.29	11.71	398.2	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

ECOR Solutions Inc.

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 1 - MW 1
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 1130							
Purge Method: Low Flow	Clear	4.86	161	N/A	6.22	11.74	520

PURGE DATA:

Date: 3/25/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 33.20
Start Purge (hrs): 1050
End Purge (hrs): 1130
Total Purge Time (min): 40
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/25/11

Sample ID No.: RW1 - MW1

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
1050			4.58	137	N/A	9.31	11.50	542	
1055			4.63	137		9.17	11.49	544	
1100			4.56	138		9.12	11.54	545	
1105			4.57	138		8.34	11.55	546	
1110			4.70	157		8.31	11.57	547	
1115			4.71	160		6.31	11.63	547	
1120			4.73	161		6.30	11.69	546	
1125			4.85	160		6.20	11.73	522	
1130			4.86	161		6.22	11.74	520	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 3 - MW 2
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 0800							
Purge Method: Low Flow	Clear	4.14	0.85	N/A	8.32	12.65	351.9

PURGE DATA:

Date: 3/25/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 37.52
Start Purge (hrs): 0730
End Purge (hrs): 0800
Total Purge Time (min): 30
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/25/11

Sample ID No.: RW3-MW2

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
0730			4.14	0.86	N/A	9.19	12.60	354.1	
0735			4.15	0.84	↓	8.76	12.61	352.8	
0740			4.20	0.84		8.55	12.62	355.1	
0745			4.26	0.85		8.32	12.64	353.2	
0750			4.23	0.85		8.23	12.63	351.1	
0755			4.15	0.86		8.27	12.64	356.0	
0800			4.14	0.85		8.32	12.65	351.9	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 2 - MW 1
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 0805							
Purge Method: Low Flow	Clear	10.73	0.101	N/A	0.53	12.78	-100.1

PURGE DATA:

Date: 3/24/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 37.31
Start Purge (hrs): 0730
End Purge (hrs): 0805
Total Purge Time (min): 35
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/24/11

Sample ID No.: RW 2-MW1

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
0730			10.21	0.110	N/A	1.91	13.81	-79.9	
0735			10.38	0.103		1.53	12.84	-93.5	
0740			10.67	0.103		1.22	12.71	-95.1	
0745			10.76	0.104		1.26	12.84	-94.5	
0750			10.65	0.101		0.79	12.70	-91.8	
0755			10.70	0.101		0.57	12.78	-94.2	
0800			10.77	0.101		0.55	12.80	-98.5	
0805			10.73	0.101		0.53	12.78	-100.1	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW3 - MW3
Sample Location: Bethpage, NY
Sampled By: GG

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 1000							
Purge Method: Low Flow	Clear	8.42	0.135	N/A	3.03	14.12	8.1

PURGE DATA:

Date: 3/24/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 37.46
Start Purge (hrs): 0930
End Purge (hrs): 1000
Total Purge Time (min): 30
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/24/11

Sample ID No.: RW3 - MW3

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
0930			8.16	0.138	NA	4.30	13.85	24.1	
0935			8.18	0.136		3.30	14.03	18.9	
0940			8.30	0.135		3.13	14.14	12.9	
0945			8.34	0.135		3.09	14.14	12.0	
0950			8.37	0.135		3.02	14.19	10.2	
0955			8.41	0.135		3.01	14.13	8.3	
1000			8.42	0.135		3.03	14.12	8.1	

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage GM-38
Project No.: EF032.300

Sample ID No.: RW 3- MW4
Sample Location: Bethpage, NY
Sampled By: GG.

SAMPLING DATA: **FINAL VALUES:**

	Color (Visual)	Ph (Standard)	S.C. (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (°C)	ORP (MV)
Time: 1105							
Purge Method: Low Flow	Clear	8.68	0.092	N/A	4.09	14.48	2.8

PURGE DATA:

Date: 3/24/11
Purge Method: Low Flow - bladder pump
PID Reading (ppm): ---
Well Casing Diameter & Material: 4"
Total Well Depth (TD):
Static Water Level (DTW): 38.51
Start Purge (hrs): 1030
End Purge (hrs): 1105
Total Purge Time (min): 35
Total Vol. Purged (gal/L):

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.87477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	40 mL CG	3
TSS	HNO_3	500 mL PL	1
Mercury	---	250 mL PL	1

OBSERVATIONS/NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

ECOR Solutions Inc.

PURGE DATA SHEET

Date: 3/24/11

Sample ID No.: RW3 - MW4

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)	
	Target drawdown ≤0.3'	*200-500*	*±0.1 unit*	*±3%*	*±10%, >1 NTU*	*±10%*	*±3%*	*±10 mV*	*Stability reached when 3 consecutive readings are within this range*
1030			8.30	0.090	N/A	6.50	14.45	2.4	
1035			8.37	0.091		4.58	14.33	2.3	
1040			8.38	0.091		4.45	14.32	3.5	
1045			8.40	0.092		4.35	14.4	5.5	
1050			8.57	0.092		4.27	14.39	4.3	
1055			8.69	0.092		4.08	14.40	2.0	
1100			8.69	0.092		4.07	14.45	2.4	
1105			8.68	0.092		4.09	14.48	2.8	

Signature(s):

APPENDIX D
Validation Report

VOLATILE ORGANIC COMPOUNDS
USEPA Region II – Tier II Data Validation

Project Name: Naval Weapons Industrial Reserve Plant, GM-38 Area-LTM

Location: 100 Broadway, Bethpage, NY

Project Number: EF032

SDG #: JA71617

Client: ECOR Solutions, Inc.

Date: 04/20/2011

Laboratory: Accutest Laboratories, Dayton, NJ

Reviewer: Samir A. Naguib

Summary:

1. Tier II data validation was performed on the data for eight (8) water samples, one (1) trip blank and one (1) field blank analyzed for Volatiles by EPA Method 624.

2. The samples were collected on 03/24 and 25/2011. The samples were submitted to Accutest Laboratories, Dayton, NJ on 03/26/2011 for analysis.

3. The USEPA Region II SOP HW-24, Revision No.: 2, August 2008: Validating Volatile Organic Compounds by SW-846 Method 8260B; USEPA National Functional Guidelines for Organic Data Review, EPA 540/R-99/008, October 1999; EPA Method 624 and Quality Assurance Project Plan for GM-38 Area, Naval Weapons Industrial Reserve Plant, Bethpage, NY; September 3, 2009 were used in evaluating the Volatiles data in this summary report.

4. In general, the data are valid as reported and may be used for decision making purposes. Selected data points were qualified due to nonconformance of certain Quality Control criteria (See discussion below).

Samples:

The samples included in this review are listed below:

Client Sample ID	Laboratory Sample ID	Collection Date	Matrix	Sample Status
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	03/25/11	Water	
NWIRP-GM-38-GW-RW3-MW1-032511-DUP	JA71617-5	03/25/11	Water	Field Duplicate of sample NWIRP-GM-38-GW-RW3-MW1-032511
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	03/25/11	Water	
NWIRP-GM-38-GW-FB-032511	JA71617-9	03/25/11	Water	Field Blank
NWIRP-GM-38-GW-TB-032511	JA71617-10	03/25/11	Water	Trip Blank

Sample Conditions/Problems:

1. The Traffic Reports/Chain-of-Custody Records, Sampling Report and/or Laboratory Case Narrative did not indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data. No qualifications were required.

Holding Times:

1. All water samples were analyzed within 14days from sample collection. No qualifications were required.

2. All water samples were properly preserved (pH<2.0). No qualifications were required.

GC/MS Tuning:

1. All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria. No qualifications were required.

Initial Calibration:

1. Initial calibration curve analyzed on 03/28/2011 (GCMS3B) exhibited acceptable %RSD and average RRF values for all compounds. No qualifications were required.

Initial Calibration Verification (ICV):

1. Initial calibration verification analyzed on 03/28/2011 (GCMS3B) exhibited acceptable %Ds (≤20.0%). No qualifications were required.

Continuing Calibration Verification (CCV):

1. CCV analyzed on 04/07/2011 @09:05AM (GCMS3B) exhibited acceptable %Ds (≤15.0%) for all compounds with the following exception(s):

Compound	%D
Acetone	-16.7

Client Sample ID	Laboratory Sample ID	Compound	Action
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	Acetone	UJ
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	Acetone	UJ
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	Acetone	UJ
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	Acetone	UJ
NWIRP-GM-38-GW-RW3-MW1-032511-DUP	JA71617-5	Acetone	UJ
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	Acetone	UJ
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	Acetone	UJ
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	Acetone	UJ
NWIRP-GM-38-GW-FB-032511	JA71617-9	Acetone	UJ
NWIRP-GM-38-GW-TB-032511	JA71617-10	Acetone	UJ

Surrogates:

1. All surrogates %REC values for all water samples and associated QC were within the laboratory control limits. No qualifications were required.

Internal Standard (IS) Area Performance:

1. All samples exhibited acceptable area count for all five internal standards. No qualifications were required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB):

1. Method Blank (V3B3220-MB) analyzed on 04/07/2011 was free of contamination. No qualifications were required.

2. Field Blank (NWIRP-GM38-GW-FB-032511) (JA71617-9) analyzed on 04/07/2011was free of contamination. No qualifications were required.

3. Trip Blank (NWIRP-GM38-GW-TB-032511) (JA71617-10) analyzed on 04/07/2011 was free of contamination. No qualifications were required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD):

1. Laboratory Control Sample (V3B3220-BS) was analyzed on 04/07/2011. All %RECs were within the laboratory control limits. No qualifications were required.

Field Duplicate:

1. Sample NWIRP-GM-38-GW-RW3-MW1-032511-DUP (JA71617-5) was collected as field duplicate for sample NWIRP-GM-38-GW-RW3-MW1-032511 (JA71617-6). All RPDs were <50%. No qualifications were required.

Field Sample	Analyte	Analytical Method	Result	Units	Field Duplicate	Result	Units	RPD	Qualifier
NWIRP-GM-38-GW-RW3-MW1-032511	1,1-Dichloroethane	EPA 624	1.3	µg/l	NWIRP-GM-38-GW-RW3-MW1-032511-DUP	1.3	µg/l	0.0	None
NWIRP-GM-38-GW-RW3-MW1-032511	1,1-Dichloroethene	EPA 624	1.2	µg/l	NWIRP-GM-38-GW-RW3-MW1-032511-DUP	1.1	µg/l	8.7	None
NWIRP-GM-38-GW-RW3-MW1-032511	Tetrachloroethene	EPA 624	1.4	µg/l	NWIRP-GM-38-GW-RW3-MW1-032511-DUP	1.6	µg/l	13.3	None
NWIRP-GM-38-GW-RW3-MW1-032511	1,1,1-Trichloroethane	EPA 624	1.1	µg/l	NWIRP-GM-38-GW-RW3-MW1-032511-DUP	1.1	µg/l	0.0	None

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD):

1. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) were performed on sample NWIRP-GM-38-GW-RW3-MW2-032511 (JA71617-4). All %RECs and RPDs were within the laboratory control limits with the following exception(s):

Compound	%REC/%REC/RPD	Action
Chloromethane	A/A/17	None

A= Acceptable

Compound Quantitation and Reported Contract Required Quantitation Limits (CRQLs):

1. All results were within the linear calibration range. No qualifications were required.

Target Compound Identification:

1. All Relative Retention Times (RRTs) of the reported compounds were within ± 0.06 RRT units of the standard (opening CCV).

2. Sample compound spectra were compared against the laboratory standard spectra.

3. No QC deviations were observed.

Comments:

1. Validation qualifiers (if required) were entered into the EDD for SDG: JA71617.

TRACE METALS
USEPA Region II – Tier II Data Validation

Project Name: Naval Weapons Industrial Reserve Plant, GM-38 Area-LTM

Location: 100 Broadway, Bethpage, NY

Project Number: EF032

SDG #: JA71617

Client: ECOR Solutions, Inc.

Date: 04/20/2011

Laboratory: Accutest Laboratories, Dayton, NJ

Reviewer: Samir A. Naguib

Summary:

1. Tier II data validation was performed on the data for eight (8) water samples and one (1) field blank analyzed for Mercury by SW-846 Method 7470A.

2. The samples were collected on 03/24 and 25/2011. The samples were submitted to Accutest Laboratories, Dayton, NJ on 03/26/2011 for analysis.

3. The USEPA Region II SOP No. HW-2, Revision 13, September 2006, for Evaluation of Metals Data for Contract Laboratory Program (CLP), based on SOW-ILM05.3 (SOP Revision 13) and Quality Assurance Project Plan for GM-38 Area, Naval Weapons Industrial Reserve Plant, Bethpage, NY; September 3, 2009 were used in evaluating the Mercury data in this summary report.

4. In general, the data are valid as reported and may be used for decision making purposes. Selected data points were qualified due to nonconformance of certain Quality Control criteria (See discussion below).

Samples:

The samples included in this review are listed below:

Client Sample ID	Laboratory Sample ID	Collection Date	Matrix	Sample Status
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	03/25/11	Water	
NWIRP-GM-38-GW-RW3-MW1-032511-DUP	JA71617-5	03/25/11	Water	Field Duplicate of sample NWIRP-GM-38-GW-RW3-MW1-032511
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	03/25/11	Water	
NWIRP-GM-38-GW-FB-032511	JA71617-9	03/25/11	Water	Field Blank

Sample Conditions/Problems:

1. The Traffic Reports/Chain-of-Custody Records, Sampling Report and/or Laboratory Case Narrative did not indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data. No qualifications were required.

Holding Times:

1. All water samples were digested and analyzed within the 28days holding times for Mercury. No qualifications were required.

Initial and Continuing Calibration Verification (ICV and CCV):

Mercury:

1 All correlation coefficient for Mercury calibration curve analyzed were ≥0.995. No qualifications were required.

2. All ICVs and CCVs %REC values were within the QC limits (80-120%). No qualifications were required.

CRQL Check Standard (CRI):

1. The CRI %REC was within the control limits (70-130%). No qualifications were required.

Blanks (Method Blank, ICB and CCB):

1. All ICBs and CCBs were free of contamination. No qualifications were required.

2. Method Blank (MP57722) digested on 04/15/2011 was free of contamination. No qualifications were required.

Field Blank (FB) and Equipment Blank (EB):

1. Field Blank (NWIRP-GM-38-FB-032511) analyzed on 04/15/2011 was free of contamination. No qualifications were required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD):

1. Mercury %REC in Laboratory Control Sample associated with batch ID: MP57722 was within the laboratory control limits. No qualifications were required.

Field Duplicate:

1. Sample NWIRP-GM-38-GW-RW3-MW1-032511-DUP (JA71617-5) was collected as field duplicate for sample NWIRP-GM-38-GW-RW3-MW1-032511 (JA71617-6). Both samples were reported as non-detects. No qualifications were required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD):

1. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) were performed on sample NWIRP-GM-38-GW-RW3-MW2-032511 (JA71617-4). All %REC's and RPD were within the laboratory control limits. No qualifications were required.

Compound Quantitation and Reported Detection Limits:

1. All sample results were reported within the linear calibration range.

Comments:

1. Validation qualifiers (if required) were entered into the EDD for SDG: JA71617.

GENERAL CHEMISTRY
USEPA Region II – Tier II Data Validation

Project Name: Naval Weapons Industrial Reserve Plant, GM-38 Area-LTM

Location: 100 Broadway, Bethpage, NY

Project Number: EF032

SDG #: JA71617

Client: ECOR Solutions, Inc.

Date: 04/20/2011

Laboratory: Accutest Laboratories, Dayton, NJ

Reviewer: Samir A. Naguib

Summary:

1. Tier II data validation was performed on the data for eight (8) water samples and one (1) field blank analyzed for Solids, Total Suspended (TSS) by SM20th 2540D.

2. The samples were collected on 03/24 and 25/2011. The samples were submitted to Accutest Laboratories, Dayton, NJ on 03/26/2011 for analysis.

3. The USEPA Region II SOP No. HW-2, Revision 13, September 2006, for Evaluation of Metals Data for Contract Laboratory Program (CLP), based on SOW-ILM05.3 (SOP Revision 13) was used in evaluating the Solids, Total Suspended data in this summary report.

4. In general, the data are valid as reported and may be used for decision making purposes. Selected data points were qualified due to nonconformance of certain Quality Control criteria (See discussion below).

Samples:

The samples included in this review are listed below:

Client Sample ID	Laboratory Sample ID	Collection Date	Matrix	Sample Status
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	03/24/11	Water	
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	03/25/11	Water	
NWIRP-GM-38-GW-RW3-MW1-032511-DUP	JA71617-5	03/25/11	Water	Field Duplicate of sample NWIRP-GM-38-GW-RW3-MW1-032511
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	03/25/11	Water	
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	03/25/11	Water	
NWIRP-GM-38-GW-FB-032511	JA71617-9	03/25/11	Water	Field Blank

Sample Conditions/Problems:

1. The Traffic Reports/Chain-of-Custody Records, Sampling Report and/or Laboratory Case Narrative did not indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data. No qualifications were required.

Holding Times:

1. All water samples were analyzed within the 7days holding times for Solids, Total Suspended. No qualifications were required.

Method Blank (MB), Storage Blank (SB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB):

1. Method Blanks associated with Batch IDs: GN49060 and GN49113 were free of contamination. No qualifications were required.

2. Field Blank (NWIRP-GM-38-GW-FB-032511) (JA71617-9) analyzed on 03/30/2011 was free of contamination. No qualifications were required.

Field Duplicate:

1. Sample NWIRP-GM-38-GW-RW3-MW1-032511-DUP (JA71617-5) was collected as field duplicate for sample NWIRP-GM-38-GW-RW3-MW1-032511 (JA71617-6). Both samples were reported as non-detects. No qualifications were required.

Laboratory Duplicate:

1. Laboratory duplicate was performed on sample NWIRP-GM-38-GW-RW3-MW2-032511 (JA71617-4). TSS RPD was <50%. No qualifications were required.

2. Laboratory duplicate was performed on sample NWIRP-GM-38-GW-RW3-MW1-032511-DUP (JA71617-5). Both samples were reported as non-detects. No qualifications were required.

Compound Quantitation and Reported Detection Limits:

1. All sample results were reported within the linear calibration range.

Comments:

1. Validation qualifiers (if required) were entered into the EDD for SDG: JA71617.

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,1,1-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,1-Dichloroethane		ug/l	U	0.30	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,2-Dichloroethene (total)	0.43	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Benzene	0.30	ug/l	J	0.27	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	cis-1,2-Dichloroethene	0.43	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Toluene	0.33	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Trichloroethene	1.7	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	EPA624	03/24/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	SM202540D	03/24/11	1	Solids, Total Suspended	4.0	mg/l		4.0	4.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW2-MW1-032411	JA71617-1	SW8467470A	03/24/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,1,1-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,1-Dichloroethane		ug/l	U	0.30	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,2-Dichloroethene (total)		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	cis-1,2-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Trichloroethene		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-TB-032511	JA71617-10	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,1,1-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,1-Dichloroethane	0.81	ug/l	J	0.30	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,2-Dichloroethene (total)		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	cis-1,2-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Trichloroethene	7.7	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	EPA624	03/24/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	SM202540D	03/24/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW4-032411	JA71617-2	SW8467470A	03/24/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,1,1-Trichloroethane	0.62	ug/l	J	0.21	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,1-Dichloroethane	1.5	ug/l		0.30	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,1-Dichloroethene	0.96	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,2-Dichloroethene (total)	2.3	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Chloroform	0.33	ug/l	J	0.17	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	cis-1,2-Dichloroethene	2.3	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	10	Trichloroethene	288	ug/l		2.5	10
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	EPA624	03/24/11	1	Xylenes (total)		ug/l	U	0.35	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	SM202540D	03/24/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-RW3-MW3-032411	JA71617-3	SW8467470A	03/24/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,1,1-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,1-Dichloroethane		ug/l	U	0.30	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,2-Dichloroethene (total)	1.6	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	cis-1,2-Dichloroethene	1.6	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Trichloroethene	110	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	SM202540D	03/25/11	1	Solids, Total Suspended	9.0	mg/l		4.0	4.0
NWIRP-GM-38-GW-RW3-MW2-032511	JA71617-4	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,1,1-Trichloroethane	1.1	ug/l		0.21	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,1-Dichloroethane	1.3	ug/l		0.30	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,1-Dichloroethene	1.1	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,2-Dichloroethene (total)	0.45	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	cis-1,2-Dichloroethene	0.45	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Tetrachloroethene	1.6	ug/l		0.51	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Trichloroethene	77.9	ug/l		0.25	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	SM202540D	03/25/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-RW3-MW1-032511-	JA71617-5	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,1,1-Trichloroethane	1.1	ug/l		0.21	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,1-Dichloroethane	1.3	ug/l		0.30	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,1-Dichloroethene	1.2	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,2-Dichloroethene (total)	0.47	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	cis-1,2-Dichloroethene	0.47	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Tetrachloroethene	1.4	ug/l		0.51	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Trichloroethene	76.2	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	SM202540D	03/25/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-RW3-MW1-032511	JA71617-6	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,1,1-Trichloroethane	0.79	ug/l	J	0.21	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,1-Dichloroethane	3.6	ug/l		0.30	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,1-Dichloroethene	1.9	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,2-Dichloroethene (total)	125	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Chloroform	0.55	ug/l	J	0.17	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	cis-1,2-Dichloroethene	121	ug/l		0.24	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	trans-1,2-Dichloroethene	4.2	ug/l		0.35	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Trichloroethene	97.6	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	SM202540D	03/25/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-RW1-MW1-032511	JA71617-7	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,1,1-Trichloroethane	0.33	ug/l	J	0.21	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,1,2-Trichloroethane	0.41	ug/l	J	0.21	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,1-Dichloroethane	2.4	ug/l		0.30	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,2-Dichloroethene (total)	0.58	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Chloroform	0.73	ug/l	J	0.17	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	cis-1,2-Dichloroethene	0.58	ug/l	J	0.24	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Tetrachloroethene		ug/l	U	0.51	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Trichloroethene	1.0	ug/l		0.25	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	SM202540D	03/25/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-RW1-MW3-032511	JA71617-8	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,1,1-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,1,2,2-Tetrachloroethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,1,2-Trichloroethane		ug/l	U	0.21	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,1-Dichloroethane		ug/l	U	0.30	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,1-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,2-Dichloroethane		ug/l	U	0.53	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,2-Dichloroethene (total)		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	1,2-Dichloropropane		ug/l	U	0.12	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	2-Butanone (MEK)		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	2-Hexanone		ug/l	U	1.7	5.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	4-Methyl-2-pentanone(MIBK)		ug/l	U	1.4	5.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Acetone		ug/l	UJ	3.9	5.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Benzene		ug/l	U	0.27	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Bromodichloromethane		ug/l	U	0.29	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Bromoform		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Bromomethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Carbon disulfide		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Carbon tetrachloride		ug/l	U	0.14	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Chlorobenzene		ug/l	U	0.26	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Chloroethane		ug/l	U	0.47	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Chloroform		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Chloromethane		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	cis-1,2-Dichloroethene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	cis-1,3-Dichloropropene		ug/l	U	0.19	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Dibromochloromethane		ug/l	U	0.23	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Ethylbenzene		ug/l	U	0.22	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Methylene chloride		ug/l	U	0.17	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Styrene		ug/l	U	1.0	2.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Tetrachloroethene		ug/l	U	0.51	1.0

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE-GM-38 AREA-LTM
100 BROADWAY, BETHPAGE, NY
DATA SUMMARY TABLE
AQUEOUS
SDG: JA71617

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Toluene		ug/l	U	0.24	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	trans-1,2-Dichloroethene		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	trans-1,3-Dichloropropene		ug/l	U	0.20	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Trichloroethene		ug/l	U	0.25	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Vinyl chloride		ug/l	U	0.16	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	EPA624	03/25/11	1	Xylenes (total)		ug/l	U	0.35	1.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	SM202540D	03/25/11	1	Solids, Total Suspended		mg/l	U	4.0	4.0
NWIRP-GM-38-GW-FB-032511	JA71617-9	SW8467470A	03/25/11	1	Mercury		ug/l	U	0.20	0.20

APPENDIX E
GW Laboratory Analytical Data Package

New Jersey
ACCUTEST LABORATORIES

04/19/11

Technical Report for

Ecor Solutions

GM-38, 100 Broadway, Bethpage, NY

EF032

Accutest Job Number: JA71617

Sampling Dates: 03/24/11 - 03/25/11

Report to:

lapp@ecor-solutions.com

ATTN: Distribution1

Total number of pages in report: **46**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Accutest LabLink@16:27 19-Apr-2011

Sample Summary

Ecor Solutions

Job No: JA71617

GM-38, 100 Broadway, Bethpage, NY
Project No: EF032

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA71617-1	03/24/11	10:35	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW2-MW1-032411
JA71617-2	03/24/11	11:35	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW3-MW4-032411
JA71617-3	03/24/11	12:30	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW3-MW3-032411
JA71617-4	03/25/11	08:00	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW3-MW2-032511
JA71617-4D	03/25/11	08:00	GG	03/26/11	AQ	Water Dup/MSD	NWIRP-GM-38-GW-RW3-MW2-032511
JA71617-4S	03/25/11	08:00	GG	03/26/11	AQ	Water Matrix Spike	NWIRP-GM-38-GW-RW3-MW2-032511
JA71617-5	03/25/11	09:00	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW3-MW1-032511-DUP
JA71617-6	03/25/11	09:00	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW3-MW1-032511
JA71617-7	03/25/11	11:30	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW1-MW1-032511
JA71617-8	03/25/11	13:00	GG	03/26/11	AQ	Ground Water	NWIRP-GM-38-GW-RW1-MW3-032511
JA71617-9	03/25/11	15:00	GG	03/26/11	AQ	Field Blank Water	NWIRP-GM-38-GW-FB-032511
JA71617-10	03/25/11	15:00	GG	03/26/11	AQ	Trip Blank Water	NWIRP-GM-38-GW-TB-032511

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Ecor Solutions	**Job No:**	JA71617
Site:	GM-38, 100 Broadway, Bethpage, NY	**Report Date**	4/19/2011 3:38:19 PM

On 03/26/2011, 8 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.1 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA71617 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ **Batch ID:** V3B3220

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA71617-4MS, JA71617-4MSD were used as the QC samples indicated.
- RPD(s) for MSD for Chloromethane are outside control limits for sample JA71617-4MSD. Outside control limits due to matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP57722

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA71617-4MS, JA71617-4MSD were used as the QC samples for metals.

Wet Chemistry By Method SM20 2540D

Matrix: AQ **Batch ID:** GN49060

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA71294-10DUP were used as the QC samples for Solids, Total Suspended.

Matrix: AQ **Batch ID:** GN49113

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA71617-4DUP, JA71617-5DUP were used as the QC samples for Solids, Total Suspended.
- RPD(s) for Duplicate for Solids, Total Suspended are outside control limits for sample GN49113-D2. RPD acceptable due to low duplicate and sample concentrations.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW2-MW1-032411		
Lab Sample ID:	JA71617-1	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68974.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	0.30	1.0	0.27	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.43	1.0	0.24	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.43	1.0	0.24	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	0.33	1.0	0.24	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW2-MW1-032411		
Lab Sample ID:	JA71617-1	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	1.7	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	96%		83-116%
1868-53-7	Dibromofluoromethane (S)	102%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW2-MW1-032411		
Lab Sample ID:	JA71617-1	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11	JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW2-MW1-032411		
Lab Sample ID:	JA71617-1	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	4.0	4.0	mg/l	1	03/29/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW4-032411		
Lab Sample ID:	JA71617-2	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68975.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	0.81	1.0	0.30	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW4-032411		
Lab Sample ID:	JA71617-2	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	7.7	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	113%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	96%		83-116%
1868-53-7	Dibromofluoromethane (S)	102%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW4-032411		
Lab Sample ID:	JA71617-2	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11 JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW4-032411		
Lab Sample ID:	JA71617-2	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/29/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW3-032411		
Lab Sample ID:	JA71617-3	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68973A.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2	3B68978.D	10	04/07/11	TLR	n/a	n/a	V3B3220

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	0.33	1.0	0.17	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	1.5	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	0.96	1.0	0.24	ug/l	J
156-59-2	cis-1,2-Dichloroethene	2.3	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	2.3	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	0.62	1.0	0.21	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW3-032411		
Lab Sample ID:	JA71617-3	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	288 [a]	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	114%	68-134%
2037-26-5	Toluene-D8 (SUR)	96%	98%	87-112%
460-00-4	4-Bromofluorobenzene (SUR)	95%	95%	83-116%
1868-53-7	Dibromofluoromethane (S)	100%	103%	85-117%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW3-032411		
Lab Sample ID:	JA71617-3	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11	JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW3-032411		
Lab Sample ID:	JA71617-3	**Date Sampled:**	03/24/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/29/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW2-032511		
Lab Sample ID:	JA71617-4	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68973.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.6	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.6	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW2-032511		
Lab Sample ID:	JA71617-4	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	110	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	93%		83-116%
1868-53-7	Dibromofluoromethane (S)	101%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW2-032511		
Lab Sample ID:	JA71617-4	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11 JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW2-032511		
Lab Sample ID:	JA71617-4	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	9.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511-DUP		
Lab Sample ID:	JA71617-5	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68987.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	1.3	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	1.1	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.45	1.0	0.24	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.45	1.0	0.24	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	1.6	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	1.1	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511-DUP		
Lab Sample ID:	JA71617-5	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	77.9	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	112%		68-134%
2037-26-5	Toluene-D8 (SUR)	96%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	94%		83-116%
1868-53-7	Dibromofluoromethane (S)	101%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511-DUP		
Lab Sample ID:	JA71617-5	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11 JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511-DUP		
Lab Sample ID:	JA71617-5	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511		
Lab Sample ID:	JA71617-6	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68988.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	1.3	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	1.2	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.47	1.0	0.24	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.47	1.0	0.24	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	1.4	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	1.1	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511		
Lab Sample ID:	JA71617-6	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	76.2	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114%		68-134%
2037-26-5	Toluene-D8 (SUR)	96%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	94%		83-116%
1868-53-7	Dibromofluoromethane (S)	101%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511		
Lab Sample ID:	JA71617-6	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11	JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW3-MW1-032511		
Lab Sample ID:	JA71617-6	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW1-032511		
Lab Sample ID:	JA71617-7	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68989.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	0.55	1.0	0.17	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	3.6	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	1.9	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	121	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.2	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	125	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	0.79	1.0	0.21	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW1-032511		
Lab Sample ID:	JA71617-7	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	97.6	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	93%		83-116%
1868-53-7	Dibromofluoromethane (S)	102%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW1-032511		
Lab Sample ID:	JA71617-7	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11 JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW1-032511		
Lab Sample ID:	JA71617-7	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW3-032511		
Lab Sample ID:	JA71617-8	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68990.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	0.73	1.0	0.17	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	2.4	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.58	1.0	0.24	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.58	1.0	0.24	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33	1.0	0.21	ug/l	J
79-00-5	1,1,2-Trichloroethane	0.41	1.0	0.21	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW3-032511		
Lab Sample ID:	JA71617-8	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	1.0	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	95%		83-116%
1868-53-7	Dibromofluoromethane (S)	101%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW3-032511		
Lab Sample ID:	JA71617-8	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11	JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-RW1-MW3-032511		
Lab Sample ID:	JA71617-8	**Date Sampled:**	03/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-FB-032511		
Lab Sample ID:	JA71617-9	**Date Sampled:**	03/25/11
Matrix:	AQ - Field Blank Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68985.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-FB-032511		
Lab Sample ID:	JA71617-9	**Date Sampled:**	03/25/11
Matrix:	AQ - Field Blank Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	113%		68-134%
2037-26-5	Toluene-D8 (SUR)	98%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	96%		83-116%
1868-53-7	Dibromofluoromethane (S)	103%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-FB-032511		
Lab Sample ID:	JA71617-9	**Date Sampled:**	03/25/11
Matrix:	AQ - Field Blank Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/15/11	04/15/11 JW	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA26183
(2) Prep QC Batch: MP57722

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-FB-032511		
Lab Sample ID:	JA71617-9	**Date Sampled:**	03/25/11
Matrix:	AQ - Field Blank Water	**Date Received:**	03/26/11
		Percent Solids:	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	03/30/11	DD	SM20 2540D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-TB-032511		
Lab Sample ID:	JA71617-10	**Date Sampled:**	03/25/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B68986.D	1	04/07/11	TLR	n/a	n/a	V3B3220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.9	ug/l	
71-43-2	Benzene	ND	1.0	0.27	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.29	ug/l	
75-25-2	Bromoform	ND	1.0	0.19	ug/l	
74-83-9	Bromomethane	ND	1.0	0.23	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.7	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.14	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.26	ug/l	
75-00-3	Chloroethane	ND	1.0	0.47	ug/l	
67-66-3	Chloroform	ND	1.0	0.17	ug/l	
74-87-3	Chloromethane	ND	1.0	0.16	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.4	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
100-42-5	Styrene	ND	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.16	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.51	ug/l	
108-88-3	Toluene	ND	1.0	0.24	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NWIRP-GM-38-GW-TB-032511		
Lab Sample ID:	JA71617-10	**Date Sampled:**	03/25/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/26/11
Method:	EPA 624	**Percent Solids:**	n/a
Project:	GM-38, 100 Broadway, Bethpage, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114%		68-134%
2037-26-5	Toluene-D8 (SUR)	97%		87-112%
460-00-4	4-Bromofluorobenzene (SUR)	96%		83-116%
1868-53-7	Dibromofluoromethane (S)	103%		85-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

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FED-EX Tracking # 8740808697820
Bottle Order Control #
Accutest Quote #
Accutest Job # JA71617

Client / Reporting Information

Company Name: ECOR Solutions
Street Address: 440 Creamery Way
City: Exton State: PA Zip: 19341
Project Contact: MATT LAPP 610840-9200 E-mail:
Phone #: 610840 9200 Fax #:
Sampler(s) Name(s): Greg Gansemi Phone #:

Project Information

Project Name: NWIRP Bethpage Gw-38
Street: 100 Broadway Hwy
City: Bethpage State: N.Y.
Project #: EF032
Client Purchase Order #:
Project Manager: Will Torres

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): TCL VOC's (EPA 624), mercury, TSS, MS/MSD

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TCL VOC's (EPA 624)	mercury	TSS	MS/MSD	LAB USE ONLY
1	NWIRP-Gw 38-GW-RW2-MW4	-032411	3-24-11	1035	GG	GW	5	X		X		X				3	1	1		AMET1
2	NWIRP-Gw-38-GW-RW3-MW-4	-032411	3-24-11	1135	GG	GW	5	X		X		X				3	1	1		WC11
3	NWIRP-Gw-38-GW-RW3-MW3	-032411	3-24-11	1230	GG	GW	5	X		X		X				3	1	1		2076
4	NWIRP-Gw38-GW-RW3-MW2	-32511	3-25-11	0800	GG	GW	9	X		X		X				6	2	1	X	
5	NWIRP-Gw38-GW-RW3-MW2	-32511	3-25-11	0800	GG	GW	5	X		X		X				3	1	1		
6	NWIRP-Gw38-GW-RW3-MW1	-32511-DUP	3-25-11	0900	GG	GW	5	X		X		X				3	1	1		
7	NWIRP-Gw38-GW-RW3-MW1	-32511	3-25-11	0900	GG	GW	5	X		X		X				3	1	1		
8	NWIRP-Gw38-GW-RW1-MW1	-32511	3-25-11	1130	GG	GW	5	X		X		X				3	1	1		
9	NWIRP-Gw38-GW-RW1-MW3	-32511	3-25-11	1300	GG	GW	5	X		X		X				3	1	1		
10	NWIRP-Gw38-GW-FB-32511		3-25-11	1500	GG	GW	5	X		X		X				3	1	1		
	NWIRP-Gw38-GW-TB-32511		3-25-11	1530	GG	GW	2	X								2				

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

a. 3/15/11 1000

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1	3-25-11 1600	1 FedX	2 FedX	3/26/11 1110	2
3		3	4		4
5		5			

Custody Seal # 664 [x] Intact [ ] Not intact
Preserved where applicable: W
On Ice: [x]
Cooler Temp. 1.1°C

A

4.1
4

JA71617: Chain of Custody
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