TETRA TECH NUS

PHIL-22095

TO: RUSS TURNER **DATE:** MAY 15, 2008

FROM: MEGAN N. RITCHIE **COPIES:** FILE

SUBJECT: INORGANIC DATA VALIDATION – TOTAL/DISSOLVED METALS AND HEXAVALENT CHROMIUM
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA
SDG NO. TWK-002

SAMPLES: 14/Aqueous/

03MW02I	03MW03SI	03IW01	DUP-02
03MW02SI	03MW03S	03SW10	DUP-03
03MW02S	03MW04S	03SW11	
03MW03I	03MW07S	RB	

*The sample dates were truncated for clarity.

OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Interim Groundwater Monitoring (IGWM) – Willow Grove, PA, SDG TWK-002 consists of 13 aqueous environmental samples (designated 03MW-, 03IW-, and 03SW-) and one field quality control (QC) blank (designated RB-). Two field duplicate pairs (DUP-02/03MW03SI and DUP-03/03IW01) were included in this sample set. All samples were analyzed for target analyte list (TAL) total and dissolved metals, except for two surface water sample (03SW10 and 03SW11) which were analyzed for total metals only. Two samples were analyzed for hexavalent chromium.

The samples were collected by Tetra Tech NUS on March 14-19, 2008 and analyzed by Analytical Laboratory Services, Inc. (ALSI) of Middletown, Pennsylvania.

EPA SW-846 Methods were conducted using 6010C for ICP-AES metals, 6020 for ICP-MS metals, 7470D for mercury, and 7196A for hexavalent chromium.

SUMMARY

Most analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, calibration data, laboratory blank results, ICP interference check samples, matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory control spike (LCS) results, field duplicate results, ICP serial dilution results, detection limits, and analyte quantitation.

Areas of concern with respect to data quality are listed below as follows:

MAJOR PROBLEMS

- The matrix spike recovery for dissolved silver was below the lower QC limit of 75 percent (%). The matrix spike duplicate recovery for dissolved silver was 0%. The non-detected silver results in the dissolved metals portion of the analysis were qualified as unusable (UR).

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the rinsate blank at the maximum concentration indicated:

Analyte	Total Maximum Concentration	Total Action Level	Dissolved Maximum Concentration	Dissolved Action Level
Antimony	---	---	0.0005 mg/L	0.0025 mg/L
Barium	0.0001 mg/L	0.0005 mg/L	0.0002 mg/L	0.001 mg/L
Cadmium	0.0001 mg/L	0.0005 mg/L	---	---
Calcium	0.06 mg/L	0.3 mg/L	---	---
Chromium	0.0013 mg/L	0.0065 mg/L	0.0004 mg/L	0.002 mg/L
Copper	0.0006 mg/L	0.003 mg/L	---	---
Manganese	---	---	0.00004 mg/L	0.0002 mg/L
Silver	0.0006 mg/L	0.003 mg/L	---	---
Vanadium	0.0002 mg/L	0.001 mg/L	---	---

Samples affected: The action levels apply to all aqueous environmental samples. The total action levels apply to the total metals fraction only. The dissolved metals apply to the dissolved metals fraction only.

Dilution factors and sample preparation volumes were taken into account during application of action levels. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination). No action was taken for barium, cadmium, and calcium because the results exceeded the action level or there were no positive results for these analytes.

- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

NOTES

The ICP-MS interference check recoveries exceeded QC criteria of 120% for chromium, manganese, and zinc for the total and dissolved fractions. The ICP-MS interference check recovery for nickel exceeded the 120% criteria in the dissolved metals fraction. No action was taken for these exceedances because there were no analyte concentrations in the samples that caused interference.

Field duplicate precision was within QC criteria.

No analytes were detected in the laboratory blanks.

The mercury and hexavalent chromium data are acceptable as reported by the laboratory.

EXECUTIVE SUMMARY

Laboratory Performance: None.

Other Factors Affecting Data Quality: Several analytes were present in the rinsate blank. The MS/MSD recoveries were below QC criteria for dissolved silver.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Review", as amended for use within EPA Region 3 (4/93).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."

R. Sloboda for M. Ritchie

Megan N. Ritchie
Chemist

Russ Sloboda

Tetra Tech NUS, Inc.
Russ Sloboda
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

Qualified Analytical Results

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: M

nsample	03IW01-20080319	nsample	03MW02I-20080318	nsample	03MW02S-20080318
samp_date	3/19/2008	samp_date	3/18/2008	samp_date	3/18/2008
lab_id	9728271005	lab_id	9728271002	lab_id	9728271004
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.59		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	48.6		
CHROMIUM	0.0013	B	B
COBALT	0.006	U	
COPPER	0.006	U	
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	18.5		
MANGANESE	0.006	U	
MERCURY	0.0005	U	
NICKEL	0.0019	J	P
POTASSIUM	1.05		
SELENIUM	0.002	J	P
SILVER	0.0006	B	B
SODIUM	15		
THALLIUM	0.001	U	
VANADIUM	0.0014		
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.001	J	P
BARIUM	0.268		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	21.4		
CHROMIUM	0.002	B	B
COBALT	0.006	U	
COPPER	0.0007	B	B
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	9.55		
MANGANESE	0.0018	J	P
MERCURY	0.0005	U	
NICKEL	0.0014	J	P
POTASSIUM	0.66		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	7.02		
THALLIUM	0.001	U	
VANADIUM	0.0018		
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.123		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	9.59		
CHROMIUM	0.0019	B	B
COBALT	0.006	U	
COPPER	0.0003	B	B
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	4.06		
MANGANESE	0.0025	J	P
MERCURY	0.0005	U	
NICKEL	0.0016	J	P
POTASSIUM	0.93		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	7.58		
THALLIUM	0.001	U	
VANADIUM	0.0003	B	B
ZINC	0.0027	J	P

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: M

nsample	03MW02SI-20080318	nsample	03MW03I-20080317	nsample	03MW03S-20080317
samp_date	3/18/2008	samp_date	3/17/2008	samp_date	3/17/2008
lab_id	9728271003	lab_id	9727814006	lab_id	9727814005
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.0004	J	P
BARIUM	0.347		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	23.7		
CHROMIUM	0.0021	B	B
COBALT	0.0002	J	P
COPPER	0.0003	B	B
IRON	0.03	J	P
LEAD	0.002	U	
MAGNESIUM	9.15		
MANGANESE	0.0016	J	P
MERCURY	0.0005	U	
NICKEL	0.0013	J	P
POTASSIUM	0.64		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	7.6		
THALLIUM	0.001	U	
VANADIUM	0.0026		
ZINC	0.002	J	P

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.0014	J	P
BARIUM	0.209		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	23.7		
CHROMIUM	0.0012	B	B
COBALT	0.006	U	
COPPER	0.006	U	
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	11.4		
MANGANESE	0.006	U	
MERCURY	0.0005	U	
NICKEL	0.0007	J	P
POTASSIUM	1.2		
SELENIUM	0.001	J	P
SILVER	0.0006	B	B
SODIUM	8.18		
THALLIUM	0.001	U	
VANADIUM	0.0018		
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.157		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	13.8		
CHROMIUM	0.0024	B	B
COBALT	0.006	U	
COPPER	0.001	B	B
IRON	0.04	J	P
LEAD	0.002	U	
MAGNESIUM	5.58		
MANGANESE	0.0033	J	P
MERCURY	0.0005	U	
NICKEL	0.0027	J	P
POTASSIUM	1.18		
SELENIUM	0.002	J	P
SILVER	0.0006	B	B
SODIUM	11.3		
THALLIUM	0.001	U	
VANADIUM	0.0003	B	B
ZINC	0.0043	J	P

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: M

nsample	03MW03SI-20080317	nsample	03MW04S-20080314	nsample	03MW07S-20080319
samp_date	3/17/2008	samp_date	3/14/2008	samp_date	3/19/2008
lab_id	9727814003	lab_id	9727814002	lab_id	9728271008
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.353		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	25.9		
CHROMIUM	0.0018	B	B
COBALT	0.006	U	
COPPER	0.006	U	
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	9.96		
MANGANESE	0.006	U	
MERCURY	0.00003	J	P
NICKEL	0.0009	J	P
POTASSIUM	0.67		
SELENIUM	0.002	J	P
SILVER	0.0006	B	B
SODIUM	9.3		
THALLIUM	0.001	U	
VANADIUM	0.0015		
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0002	J	P
ARSENIC	0.006	U	
BARIUM	0.434		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	36.5		
CHROMIUM	0.0054	B	B
COBALT	0.006	U	
COPPER	0.0013	B	B
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	13.2		
MANGANESE	0.001	J	P
MERCURY	0.0005	U	
NICKEL	0.0042	J	P
POTASSIUM	0.84		
SELENIUM	0.001	J	P
SILVER	0.0007	B	B
SODIUM	12.1		
THALLIUM	0.001	U	
VANADIUM	0.0008	B	B
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.096		
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.625		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	62.9		
CHROMIUM	0.0022	B	B
COBALT	0.0002	J	P
COPPER	0.0001	B	B
IRON	0.09		
LEAD	0.002	U	
MAGNESIUM	16.2		
MANGANESE	0.0129		
MERCURY	0.0005	U	
NICKEL	0.0048	J	P
POTASSIUM	1.06		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	22.4		
THALLIUM	0.001	U	
VANADIUM	0.0006	B	B
ZINC	0.0024	J	P

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: M

nsample	03SW10-20080319	nsample	03SW11-20080319	nsample	DUP-02
samp_date	3/19/2008	samp_date	3/19/2008	samp_date	3/17/2008
lab_id	9728271007	lab_id	9728271006	lab_id	9727814004
qc_type	NM	qc_type	NM	qc_type	FD
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	03MW03SI-20080317

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.0841		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	16.4		
CHROMIUM	0.0015	B	B
COBALT	0.006	U	
COPPER	0.0008	B	B
IRON	0.43		
LEAD	0.00007	J	P
MAGNESIUM	5.8		
MANGANESE	0.0956		
MERCURY	0.0005	U	
NICKEL	0.0012	J	P
POTASSIUM	1.73		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	7.67		
THALLIUM	0.001	U	
VANADIUM	0.0008	B	B
ZINC	0.0036	J	P

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.174		
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.113		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	22.3		
CHROMIUM	0.0017	B	B
COBALT	0.0002	J	P
COPPER	0.003	B	B
IRON	1.06		
LEAD	0.0009	J	P
MAGNESIUM	7.47		
MANGANESE	0.197		
MERCURY	0.0005	U	
NICKEL	0.002	J	P
POTASSIUM	1.88		
SELENIUM	0.006	U	
SILVER	0.0006	B	B
SODIUM	18.8		
THALLIUM	0.001	U	
VANADIUM	0.0014		
ZINC	0.016		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.00008	J	P
ARSENIC	0.0005	J	P
BARIUM	0.362		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	25.6		
CHROMIUM	0.0014	B	B
COBALT	0.006	U	
COPPER	0.006	U	
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	9.86		
MANGANESE	0.006	U	
MERCURY	0.0005	U	
NICKEL	0.0008	J	P
POTASSIUM	0.67		
SELENIUM	0.002	J	P
SILVER	0.0007	B	B
SODIUM	9.47		
THALLIUM	0.001	U	
VANADIUM	0.0015		
ZINC	0.006	U	

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: M

nsample	DUP-03	nsample	RB-20080318
samp_date	3/19/2008	samp_date	3/19/2008
lab_id	9728271010	lab_id	9728271009
qc_type	FD	qc_type	RB
units	MG/L	units	MG/L
Pct_Solids		Pct_Solids	
DUP_OF:	03IW01-20080319	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.589		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	47.7		
CHROMIUM	0.0014	B	B
COBALT	0.006	U	
COPPER	0.0006	B	B
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	18.1		
MANGANESE	0.006	U	
MERCURY	0.0005	U	
NICKEL	0.0019	J	P
POTASSIUM	1.02		
SELENIUM	0.002	J	P
SILVER	0.0006	B	B
SODIUM	14.8		
THALLIUM	0.001	U	
VANADIUM	0.0015		
ZINC	0.006	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.002	U	
ARSENIC	0.006	U	
BARIUM	0.0001	J	P
BERYLLIUM	0.001	U	
CADMIUM	0.0001	J	P
CALCIUM	0.06	J	
CHROMIUM	0.0013	J	P
COBALT	0.006	U	
COPPER	0.0006	J	P
IRON	0.07	U	
LEAD	0.002	U	
MAGNESIUM	0.11	U	
MANGANESE	0.006	U	
MERCURY	0.0005	U	
NICKEL	0.006	U	
POTASSIUM	0.56	U	
SELENIUM	0.006	U	
SILVER	0.0006	J	P
SODIUM	0.56	U	
THALLIUM	0.001	U	
VANADIUM	0.0002	J	P
ZINC	0.006	U	

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: MF

nsample	03IW01-20080319	nsample	03MW02I-20080318	nsample	03MW02S-20080318
samp_date	3/19/2008	samp_date	3/18/2008	samp_date	3/18/2008
lab_id	9728271005	lab_id	9728271002	lab_id	9728271004
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.0005	J	P
BARIUM	0.52		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	53.7		
CHROMIUM	0.0031		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	19.2		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0008	J	P
POTASSIUM	1.07		
SELENIUM	0.002	J	P
SILVER	0.001	UR	D
SODIUM	16.8		
THALLIUM	0.001	U	
VANADIUM	0.0015		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.0011	J	P
BARIUM	0.245		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	24.1		
CHROMIUM	0.0023		
COBALT	0.005	U	
COPPER	0.0003	J	P
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	9.74		
MANGANESE	0.00008	B	B
MERCURY	0.0005	U	
NICKEL	0.0008	J	P
POTASSIUM	0.84		
SELENIUM	0.001	J	P
SILVER	0.001	UR	D
SODIUM	8.17		
THALLIUM	0.001	U	
VANADIUM	0.0017		
ZINC	0.0065		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0005	B	B
ARSENIC	0.005	U	
BARIUM	0.113		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	10.8		
CHROMIUM	0.0028		
COBALT	0.0008	J	P
COPPER	0.0004	J	P
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	4.45		
MANGANESE	0.0045		
MERCURY	0.0005	U	
NICKEL	0.0013	J	P
POTASSIUM	1.07		
SELENIUM	0.0006	J	P
SILVER	0.001	UR	D
SODIUM	8.74		
THALLIUM	0.001	U	
VANADIUM	0.0003	J	P
ZINC	0.005	U	

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: MF

nsample	03MW02SI-20080318	nsample	03MW03I-20080317	nsample	03MW03S-20080317
samp_date	3/18/2008	samp_date	3/17/2008	samp_date	3/17/2008
lab_id	9728271003	lab_id	9727814006	lab_id	9727814005
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.0004	J	P
BARIUM	0.313		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	26.7		
CHROMIUM	0.0024		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	9.36		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0007	J	P
POTASSIUM	0.66		
SELENIUM	0.001	J	P
SILVER	0.001	UR	D
SODIUM	9.13		
THALLIUM	0.001	U	
VANADIUM	0.0023		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0006	B	B
ARSENIC	0.0015	J	P
BARIUM	0.197		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	26.6		
CHROMIUM	0.0022		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	11.6		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0003	J	P
POTASSIUM	1.36		
SELENIUM	0.002	J	P
SILVER	0.001	UR	D
SODIUM	8.08		
THALLIUM	0.001	U	
VANADIUM	0.0019		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0006	B	B
ARSENIC	0.005	U	
BARIUM	0.141		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	15.5		
CHROMIUM	0.0037		
COBALT	0.005	U	
COPPER	0.0011	J	P
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	5.87		
MANGANESE	0.0033	J	P
MERCURY	0.0005	U	
NICKEL	0.0022	J	P
POTASSIUM	1.39		
SELENIUM	0.003	J	P
SILVER	0.001	UR	D
SODIUM	11.6		
THALLIUM	0.001	U	
VANADIUM	0.0005	J	P
ZINC	0.0011	J	P

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: MF

nsample	03MW03SI-20080317	nsample	03MW04S-20080314	nsample	03MW07S-20080319
samp_date	3/17/2008	samp_date	3/14/2008	samp_date	3/19/2008
lab_id	9727814003	lab_id	9727814002	lab_id	9728271008
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0016	B	B
ARSENIC	0.0005	J	P
BARIUM	0.344		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	28.3		
CHROMIUM	0.0027		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	10.2		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0007	J	P
POTASSIUM	0.77		
SELENIUM	0.002	J	P
SILVER	0.001	UR	D
SODIUM	9.77		
THALLIUM	0.001	U	
VANADIUM	0.0017		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.0003	J	P
BARIUM	0.411		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	39.9		
CHROMIUM	0.0036		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	13.6		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0012	J	P
POTASSIUM	0.96		
SELENIUM	0.002	J	P
SILVER	0.001	UR	D
SODIUM	13		
THALLIUM	0.001	U	
VANADIUM	0.0011		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.005	U	
BARIUM	0.544		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	71.1		
CHROMIUM	0.0034		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	17.1		
MANGANESE	0.0001	B	B
MERCURY	0.0005	U	
NICKEL	0.0029	J	P
POTASSIUM	1.18		
SELENIUM	0.001	J	P
SILVER	0.001	UR	D
SODIUM	26		
THALLIUM	0.001	U	
VANADIUM	0.0007	J	P
ZINC	0.005	U	

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: MF

nsample	DUP-02	nsample	DUP-03	nsample	RB-20080318
samp_date	3/17/2008	samp_date	3/19/2008	samp_date	3/19/2008
lab_id	9727814004	lab_id	9728271010	lab_id	9728271009
qc_type	FD	qc_type	FD	qc_type	RB
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	03MW03SI-20080317	DUP_OF:	03IW01-20080319	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0008	B	B
ARSENIC	0.0004	J	P
BARIUM	0.351		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	29		
CHROMIUM	0.0026		
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	10.1		
MANGANESE	0.004	U	
MERCURY	0.0005	U	
NICKEL	0.0005	J	P
POTASSIUM	0.76		
SELENIUM	0.002	J	P
SILVER	0.001	UR	D
SODIUM	9.9		
THALLIUM	0.001	U	
VANADIUM	0.0017		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0004	B	B
ARSENIC	0.0002	J	P
BARIUM	0.473		
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	50.1		
CHROMIUM	0.0027		
COBALT	0.0002	J	P
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	17.8		
MANGANESE	0.0007	J	P
MERCURY	0.0005	U	
NICKEL	0.0009	J	P
POTASSIUM	0.96		
SELENIUM	0.001	J	P
SILVER	0.001	UR	D
SODIUM	15.6		
THALLIUM	0.001	U	
VANADIUM	0.0013		
ZINC	0.005	U	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	0.08	U	
ANTIMONY	0.0005	J	P
ARSENIC	0.005	U	
BARIUM	0.0002	J	P
BERYLLIUM	0.001	U	
CADMIUM	0.001	U	
CALCIUM	0.1	U	
CHROMIUM	0.0004	J	P
COBALT	0.005	U	
COPPER	0.005	U	
IRON	0.06	U	
LEAD	0.002	U	
MAGNESIUM	0.1	U	
MANGANESE	0.00004	J	P
MERCURY	0.0005	U	
NICKEL	0.005	U	
POTASSIUM	0.5	U	
SELENIUM	0.005	U	
SILVER	0.001	UR	D
SODIUM	0.5	U	
THALLIUM	0.001	U	
VANADIUM	0.001	U	
ZINC	0.005	U	

PROJ_NO: 00845

SDG: TWK-002 MEDIA: WATER DATA FRACTION: MISC

nsample	03MW03I-20080317	nsample	RB-20080318
samp_date	3/17/2008	samp_date	3/19/2008
lab_id	9727814006	lab_id	9728271009
qc_type	NM	qc_type	RB
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
HEXAVALENT CHROMIUM	MG/L	0.01	U	

Parameter	units	Result	Val Qual	Qual Code
HEXAVALENT CHROMIUM	MG/L	0.01	U	

Qualifier Codes:

a	=	Lab Blank Contamination
b	=	Field Blank Contamination
c	=	Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
d	=	MS/MSD Noncompliance
e	=	LSC/LSCD Noncompliance
f	=	Laboratory Duplicate Imprecision
g	=	Field Duplicate Imprecision
h	=	Holding Time Exceedance
i	=	ICP Serial Dilution Noncompliance
j	=	GFAA PDS – GFAA MSA's r<0.995 (correlation coefficient)
k	=	ICP Interference – include ICSAB %Rs
l	=	Instrument Calibration Range Exceedance
m	=	Sample Preservation
n	=	Internal Standard Noncompliance
o	=	Poor Instrument Performance (i.e. baseline drifting)
p	=	Uncertainty Near Detection Limit (<2 x IDL for inorganics and < CRQL for organics)
q	=	Other Problems (can encompass of number of issues)
r	=	Surrogates Recovery Noncompliance
s	=	Pesticide/PCB Resolution
t	=	% Breakdown Noncompliance for DDT and Endrin
u	=	Pesticide/PCB % Difference Between Columns for Positive Results
v	=	Non-linear Calibrations, Tuning r <0.995 (correlation coefficient)

Data Qualifier Key:

B	- Positive result is considered to be an artifact of blank contamination and should not be considered present.
J	- Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
L	- Positive result is considered biased low due to exceedance of technical quality control criteria.
U	- Value is a non-detected result as reported by the laboratory.
UL	- Non-detected result is considered biased low due to exceedance of technical quality control criteria.

APPENDIX B

Results as Reported by the Laboratory

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814001 Date Collected: 3/14/2008 16:30 Matrix: Ground Water
Sample ID: TB-20080314 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/27/08 00:09	ECR	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 00:09	ECR	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/27/08 00:09	ECR	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 00:09	ECR	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/27/08 00:09	ECR	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 00:09	ECR	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/27/08 00:09	ECR	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 00:09	ECR	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/27/08 00:09	ECR	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/27/08 00:09	ECR	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 00:09	ECR	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 00:09	ECR	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/27/08 00:09	ECR	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/27/08 00:09	ECR	A

0053

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814001** Date Collected: 3/14/2008 16:30 Matrix: Ground Water

Sample ID: **TB-20080314** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 00:09	ECR	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 00:09	ECR	A

Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96	%		62-133	SW846 8260B			3/27/08 00:09	ECR	A
4-Bromofluorobenzene (S)	97	%		79-114	SW846 8260B			3/27/08 00:09	ECR	A
Dibromofluoromethane (S)	101	%		78-116	SW846 8260B			3/27/08 00:09	ECR	A
Toluene-d8 (S)	116	%		76-127	SW846 8260B			3/27/08 00:09	ECR	A

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0054

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814002 Date Collected: 3/14/2008 17:35 Matrix: Ground Water

Sample ID: 03MW04S-20080314 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/27/08 03:31	ECR	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 03:31	ECR	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Bromodichloromethane	1.1	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Bromoform	0.87J	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/27/08 03:31	ECR	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 03:31	ECR	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Chlorodibromomethane	1.5	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
Chloroform	0.40J	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/27/08 03:31	ECR	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 03:31	ECR	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/27/08 03:31	ECR	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 03:31	ECR	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/27/08 03:31	ECR	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/27/08 03:31	ECR	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 03:31	ECR	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Tetrachloroethene	4.5	ug/L		1.0	0.4	SW846 8260B			3/27/08 03:31	ECR	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/27/08 03:31	ECR	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/27/08 03:31	ECR	A

0055

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814002** Date Collected: 3/14/2008 17:35 Matrix: Ground Water
Sample ID: **03MW04S-20080314** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 03:31	ECR	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 03:31	ECR	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98	%		62-133		SW846 8260B			3/27/08 03:31	ECR	A
Toluene-d8 (S)	115	%		76-127		SW846 8260B			3/27/08 03:31	ECR	A
4-Bromofluorobenzene (S)	99	%		79-114		SW846 8260B			3/27/08 03:31	ECR	A
Dibromofluoromethane (S)	102	%		78-116		SW846 8260B			3/27/08 03:31	ECR	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	87	%		40-125		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
2-Fluorobiphenyl (S)	90	%		32-108		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
2-Fluorophenol (S)	56	%		20-70		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
Nitrobenzene-d5 (S)	92	%		31-110		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
Phenol-d5 (S)	36	%		10-49		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
Terphenyl-d14 (S)	79	%		27-136		SW846 8270D	3/20/08	KMC	3/22/08 01:37	JAJ	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Antimony, Total	0.0002J	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Arsenic, Dissolved	0.0003J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Barium, Total	0.434	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Barium, Dissolved	0.411	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Calcium, Total	36.5	mg/L	1	0.11	0.003	SW846 6010C	3/31/08	MNP	4/2/08 12:50	TED	F3
Calcium, Dissolved	39.9	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 13:50	JWK	G1
Chromium, Total	0.0054	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Chromium, Dissolved	0.0036	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Copper, Total	0.0013J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	3/31/08	MNP	4/2/08 12:50	TED	F3

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814002** Date Collected: 3/14/2008 17:35 Matrix: Ground Water

Sample ID: **03MW04S-20080314** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 13:50	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Magnesium, Total	13.2	mg/L		0.11	0.01	SW846 6010C	3/31/08	MNP	4/2/08 12:50	TED	F3
Magnesium, Dissolved	13.6	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 13:50	JWK	G1
Manganese, Total	0.001J	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 10:53	CMD	F2
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 12:29	CMD	G2
Nickel, Total	0.0042J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Nickel, Dissolved	0.0012J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Potassium, Total	0.84	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:35	JWK	F3
Potassium, Dissolved	0.96	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 13:50	JWK	G1
Selenium, Total	0.001J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Selenium, Dissolved	0.002J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Silver, Total	0.0007J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Silver, Dissolved	ND	mg/L	2	0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 11:59	LAM	G3
Sodium, Total	12.1	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:35	JWK	F3
Sodium, Dissolved	13.0	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 13:50	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Vanadium, Total	0.0008J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Vanadium, Dissolved	0.0011	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 17:09	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 02:31	AJB	G3

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0057

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814003 Date Collected: 3/17/2008 10:10 Matrix: Ground Water

Sample ID: 03MW03SI-20080317 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	ND	ug/L		10.0	4	SW846 8260B		3/27/08 04:05	ECR	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B		3/27/08 04:05	ECR	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B		3/27/08 04:05	ECR	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B		3/27/08 04:05	ECR	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B		3/27/08 04:05	ECR	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B		3/27/08 04:05	ECR	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B		3/27/08 04:05	ECR	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B		3/27/08 04:05	ECR	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B		3/27/08 04:05	ECR	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B		3/27/08 04:05	ECR	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B		3/27/08 04:05	ECR	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B		3/27/08 04:05	ECR	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B		3/27/08 04:05	ECR	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B		3/27/08 04:05	ECR	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B		3/27/08 04:05	ECR	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
Tetrachloroethene	12.0	ug/L		1.0	0.4	SW846 8260B		3/27/08 04:05	ECR	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B		3/27/08 04:05	ECR	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B		3/27/08 04:05	ECR	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B		3/27/08 04:05	ECR	A

0058

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814003 Date Collected: 3/17/2008 10:10 Matrix: Ground Water
Sample ID: 03MW03SI-20080317 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:05	ECR	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:05	ECR	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:05	ECR	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:05	ECR	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:05	ECR	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:05	ECR	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 04:05	ECR	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100	%		62-133		SW846 8260B			3/27/08 04:05	ECR	A
Toluene-d8 (S)	118	%		76-127		SW846 8260B			3/27/08 04:05	ECR	A
4-Bromofluorobenzene (S)	98	%		79-114		SW846 8260B			3/27/08 04:05	ECR	A
Dibromofluoromethane (S)	103	%		78-116		SW846 8260B			3/27/08 04:05	ECR	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	113	%		40-125		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
Terphenyl-d14 (S)	102	%		27-136		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
2-Fluorobiphenyl (S)	119	%	3	32-108		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
Nitrobenzene-d5 (S)	126	%	3	31-110		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
Phenol-d5 (S)	48	%		10-49		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
2-Fluorophenol (S)	73	%	3	20-70		SW846 8270D	3/20/08	KMC	3/22/08 03:18	JAJ	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Antimony, Dissolved	0.0016J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Arsenic, Dissolved	0.0005J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Barium, Total	0.353	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Barium, Dissolved	0.344	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Calcium, Total	25.9	mg/L	1	0.11	0.003	SW846 6010C	3/31/08	MNP	4/2/08 13:01	TED	F3
Calcium, Dissolved	28.3	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 13:55	JWK	G1
Chromium, Total	0.0018J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Chromium, Dissolved	0.0027	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Copper, Total	ND	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	3/31/08	MNP	4/2/08 13:01	TED	F3

0059

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814003** Date Collected: 3/17/2008 10:10 Matrix: Ground Water

Sample ID: **03MW03SI-20080317** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 13:55	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Magnesium, Total	9.96	mg/L		0.11	0.01	SW846 6010C	3/31/08	MNP	4/2/08 13:01	TED	F3
Magnesium, Dissolved	10.2	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 13:55	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Mercury, Total	0.00003J	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 10:56	CMD	F2
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 12:33	CMD	G2
Nickel, Total	0.0009J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Nickel, Dissolved	0.0007J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Potassium, Total	0.67	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:37	JWK	F3
Potassium, Dissolved	0.77	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 13:55	JWK	G1
Selenium, Total	0.002J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Selenium, Dissolved	0.002J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 12:18	LAM	G3
Sodium, Total	9.30	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:37	JWK	F3
Sodium, Dissolved	9.77	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 13:55	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Vanadium, Total	0.0015	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Vanadium, Dissolved	0.0017	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 17:15	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 02:54	AJB	G3

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0060

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814004 Date Collected: 3/17/2008 00:00 Matrix: Ground Water

Sample ID: DUP-02 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/27/08 04:38	ECR	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 04:38	ECR	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/27/08 04:38	ECR	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 04:38	ECR	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/27/08 04:38	ECR	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 04:38	ECR	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/27/08 04:38	ECR	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 04:38	ECR	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/27/08 04:38	ECR	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/27/08 04:38	ECR	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 04:38	ECR	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Tetrachloroethene	11.7	ug/L		1.0	0.4	SW846 8260B			3/27/08 04:38	ECR	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/27/08 04:38	ECR	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/27/08 04:38	ECR	A

0061

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814004** Date Collected: 3/17/2008 00:00 Matrix: Ground Water
Sample ID: **DUP-02** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 04:38	ECR	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 04:38	ECR	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98	%		62-133		SW846 8260B			3/27/08 04:38	ECR	A
Toluene-d8 (S)	116	%		76-127		SW846 8260B			3/27/08 04:38	ECR	A
4-Bromofluorobenzene (S)	100	%		79-114		SW846 8260B			3/27/08 04:38	ECR	A
Dibromofluoromethane (S)	103	%		78-116		SW846 8260B			3/27/08 04:38	ECR	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	6.8	%	3	40-125		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
Terphenyl-d14 (S)	6.1	%	3	27-136		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
2-Fluorobiphenyl (S)	7.3	%	3	32-108		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
Nitrobenzene-d5 (S)	6.2	%	3	31-110		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
Phenol-d5 (S)	2.5	%	3	10-49		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
2-Fluorophenol (S)	4	%	3	20-70		SW846 8270D	3/20/08	KMC	3/22/08 02:28	JAJ	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Antimony, Total	0.00008J	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Antimony, Dissolved	0.0008J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Arsenic, Total	0.0005J	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Arsenic, Dissolved	0.0004J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Barium, Total	0.362	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Barium, Dissolved	0.351	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Calcium, Total	25.6	mg/L	1	0.11	0.003	SW846 6010C	3/31/08	MNP	4/2/08 13:06	TED	F3
Calcium, Dissolved	29.0	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 13:59	JWK	G1
Chromium, Total	0.0014J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Chromium, Dissolved	0.0026	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Copper, Total	ND	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	3/31/08	MNP	4/2/08 13:06	TED	F3

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814004** Date Collected: 3/17/2008 00:00 Matrix: Ground Water

Sample ID: **DUP-02** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 13:59	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Magnesium, Total	9.86	mg/L		0.11	0.01	SW846 6010C	3/31/08	MNP	4/2/08 13:06	TED	F3
Magnesium, Dissolved	10.1	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 13:59	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 10:59	CMD	F2
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 12:36	CMD	G4
Nickel, Total	0.0008J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Nickel, Dissolved	0.0005J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Potassium, Total	0.67	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:39	JWK	F3
Potassium, Dissolved	0.76	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 13:59	JWK	G1
Selenium, Total	0.002J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Selenium, Dissolved	0.002J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Silver, Total	0.0007J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 12:21	LAM	G5
Sodium, Total	9.47	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:39	JWK	F3
Sodium, Dissolved	9.90	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 13:59	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Vanadium, Total	0.0015	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Vanadium, Dissolved	0.0017	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 17:48	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 03:00	AJB	G5

Sample Comments:

This sample was re-extracted for 8270/3510 after the hold time had passed because of low surrogate recoveries in the original extract.

The 8270/3510 re-extract had acceptable surrogate recoveries, and the results for target analytes confirmed the results from the original extraction.

Raymond J. Martrano
Laboratory Manager

0063

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814005 Date Collected: 3/17/2008 13:27 Matrix: Ground Water

Sample ID: 03MW03S-20080317 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/27/08 22:47	JAJ	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 22:47	JAJ	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/27/08 22:47	JAJ	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:47	JAJ	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/27/08 22:47	JAJ	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:47	JAJ	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/27/08 22:47	JAJ	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:47	JAJ	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/27/08 22:47	JAJ	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/27/08 22:47	JAJ	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:47	JAJ	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Tetrachloroethene	2.5	ug/L		1.0	0.4	SW846 8260B			3/27/08 22:47	JAJ	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/27/08 22:47	JAJ	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/27/08 22:47	JAJ	A

0064

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814005 Date Collected: 3/17/2008 13:27 Matrix: Ground Water
Sample ID: 03MW03S-20080317 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:47	JAJ	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 22:47	JAJ	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96	%		62-133		SW846 8260B			3/27/08 22:47	JAJ	A
Toluene-d8 (S)	119	%		76-127		SW846 8260B			3/27/08 22:47	JAJ	A
4-Bromofluorobenzene (S)	99	%		79-114		SW846 8260B			3/27/08 22:47	JAJ	A
Dibromofluoromethane (S)	101	%		78-116		SW846 8260B			3/27/08 22:47	JAJ	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.8	0.6	SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	78	%		40-125		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
Terphenyl-d14 (S)	75	%		27-136		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
2-Fluorobiphenyl (S)	82	%		32-108		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
Nitrobenzene-d5 (S)	84	%		31-110		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
Phenol-d5 (S)	32	%		10-49		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
2-Fluorophenol (S)	51	%		20-70		SW846 8270D	3/20/08	KMC	3/22/08 04:09	JAJ	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Antimony, Dissolved	0.0006J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Arsenic, Dissolved	ND	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Barium, Total	0.157	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Barium, Dissolved	0.141	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Calcium, Total	13.8	mg/L	1	0.11	0.003	SW846 6010C	3/31/08	MNP	4/2/08 13:23	TED	F3
Calcium, Dissolved	15.5	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 14:20	JWK	G1
Chromium, Total	0.0024	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Chromium, Dissolved	0.0037	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Copper, Total	0.0010J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Copper, Dissolved	0.0011J	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Iron, Total	0.04J	mg/L		0.07	0.02	SW846 6010C	3/31/08	MNP	4/2/08 13:23	TED	F3

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814005** Date Collected: 3/17/2008 13:27 Matrix: Ground Water

Sample ID: **03MW03S-20080317** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 14:20	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Magnesium, Total	5.58	mg/L		0.11	0.01	SW846 6010C	3/31/08	MNP	4/2/08 13:23	TED	F3
Magnesium, Dissolved	5.87	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 14:20	JWK	G1
Manganese, Total	0.0033J	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Manganese, Dissolved	0.0033J	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 11:03	CMD	F2
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 12:40	CMD	G2
Nickel, Total	0.0027J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Nickel, Dissolved	0.0022J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Potassium, Total	1.18	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:41	JWK	F3
Potassium, Dissolved	1.39	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 14:20	JWK	G1
Selenium, Total	0.002J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Selenium, Dissolved	0.003J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 12:24	LAM	G3
Sodium, Total	11.3	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:41	JWK	F3
Sodium, Dissolved	11.6	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 14:20	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Vanadium, Total	0.0003J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Vanadium, Dissolved	0.0005J	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3
Zinc, Total	0.0043J	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 17:54	SRT	F1
Zinc, Dissolved	0.0011J	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 03:06	AJB	G3

Sample Comments:

The sample collection time was 1327 on March 17, 2008 per an email received from Don Whelan on 03/21/08. SJB 03/25/08

Raymond J. Martrano
Laboratory Manager

0066

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: 9727814006 Date Collected: 3/17/2008 16:37 Matrix: Ground Water

Sample ID: 03MW03I-20080317 Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/27/08 22:13	JAJ	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/27/08 22:13	JAJ	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/27/08 22:13	JAJ	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:13	JAJ	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/27/08 22:13	JAJ	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:13	JAJ	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/27/08 22:13	JAJ	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:13	JAJ	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/27/08 22:13	JAJ	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/27/08 22:13	JAJ	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/27/08 22:13	JAJ	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Tetrachloroethene	6.9	ug/L		1.0	0.4	SW846 8260B			3/27/08 22:13	JAJ	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/27/08 22:13	JAJ	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/27/08 22:13	JAJ	A

0067

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814006** Date Collected: 3/17/2008 16:37 Matrix: Ground Water

Sample ID: **03MW03I-20080317** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/27/08 22:13	JAJ	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/27/08 22:13	JAJ	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97	%		62-133		SW846 8260B			3/27/08 22:13	JAJ	A
Toluene-d8 (S)	115	%		76-127		SW846 8260B			3/27/08 22:13	JAJ	A
4-Bromofluorobenzene (S)	100	%		79-114		SW846 8260B			3/27/08 22:13	JAJ	A
Dibromofluoromethane (S)	103	%		78-116		SW846 8260B			3/27/08 22:13	JAJ	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.8	0.6	SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	69	%		40-125		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
Terphenyl-d14 (S)	59	%		27-136		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
2-Fluorobiphenyl (S)	75	%		32-108		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
Nitrobenzene-d5 (S)	78	%		31-110		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
Phenol-d5 (S)	32	%		10-49		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
2-Fluorophenol (S)	47	%		20-70		SW846 8270D	3/20/08	KMC	3/22/08 05:00	JAJ	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Antimony, Dissolved	0.0006J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Arsenic, Total	0.0014J	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Arsenic, Dissolved	0.0015J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Barium, Total	0.209	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Barium, Dissolved	0.197	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Calcium, Total	23.7	mg/L	1	0.11	0.003	SW846 6010C	3/31/08	MNP	4/2/08 13:29	TED	F3
Calcium, Dissolved	26.6	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 14:25	JWK	G1
Chromium, Total	0.0012J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Chromium, Dissolved	0.0022	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Copper, Total	ND	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	3/31/08	MNP	4/2/08 13:29	TED	F3

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

PRELIMINARY RESULTS

Workorder: 9727814 TWK002|GW NASJRB CTO 0412

Lab ID: **9727814006** Date Collected: 3/17/2008 16:37 Matrix: Ground Water

Sample ID: **03MW03I-20080317** Date Received: 3/18/2008 11:45

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr.
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 14:25	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Magnesium, Total	11.4	mg/L		0.11	0.01	SW846 6010C	3/31/08	MNP	4/2/08 13:29	TED	F3
Magnesium, Dissolved	11.6	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 14:25	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 11:06	CMD	F2
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	3/28/08	CMD	3/28/08 12:57	CMD	G2
Nickel, Total	0.0007J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Nickel, Dissolved	0.0003J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Potassium, Total	1.20	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:44	JWK	F3
Potassium, Dissolved	1.36	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 14:25	JWK	G1
Selenium, Total	0.001J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Selenium, Dissolved	0.002J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:19	LAM	G3
Sodium, Total	8.18	mg/L		0.56		SW846 6010C	3/31/08	MNP	3/31/08 15:44	JWK	F3
Sodium, Dissolved	8.08	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 14:25	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Vanadium, Total	0.0018	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Vanadium, Dissolved	0.0019	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 18:00	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 03:12	AJB	G3
WET CHEMISTRY											
Hexavalent Chromium	ND	mg/L		0.01	0.01	SW846 7196A			3/18/08 15:15	KLZ	H

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0069

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271001 Date Collected: 3/18/2008 12:00 Matrix: Ground Water

Sample ID: TB-20080318 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 19:15	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 19:15	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 19:15	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:15	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 19:15	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:15	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 19:15	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:15	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 19:15	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 19:15	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:15	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 19:15	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 19:15	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 19:15	DXN	A

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271001** Date Collected: 3/18/2008 12:00 Matrix: Ground Water

Sample ID: **TB-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:15	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 19:15	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88	%		62-133		SW846 8260B			3/30/08 19:15	DXN	A
4-Bromofluorobenzene (S)	97	%		79-114		SW846 8260B			3/30/08 19:15	DXN	A
Dibromofluoromethane (S)	93	%		78-116		SW846 8260B			3/30/08 19:15	DXN	A
Toluene-d8 (S)	110	%		76-127		SW846 8260B			3/30/08 19:15	DXN	A

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0075

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271002** Date Collected: 3/18/2008 13:46 Matrix: Ground Water

Sample ID: **03MW02I-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 22:03	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 22:03	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 22:03	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:03	DXN	A
Carbon Tetrachloride	0.38J	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 22:03	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:03	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 22:03	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:03	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 22:03	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 22:03	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:03	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Tetrachloroethene	7.8	ug/L		1.0	0.4	SW846 8260B			3/30/08 22:03	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 22:03	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 22:03	DXN	A

0076

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271002 Date Collected: 3/18/2008 13:46 Matrix: Ground Water
Sample ID: 03MW02I-20080318 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:03	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 22:03	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91	%		62-133		SW846 8260B			3/30/08 22:03	DXN	A
Toluene-d8 (S)	112	%		76-127		SW846 8260B			3/30/08 22:03	DXN	A
4-Bromofluorobenzene (S)	95	%		79-114		SW846 8260B			3/30/08 22:03	DXN	A
Dibromofluoromethane (S)	94	%		78-116		SW846 8260B			3/30/08 22:03	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	74	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
2-Fluorobiphenyl (S)	72	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
2-Fluorophenol (S)	45	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
Nitrobenzene-d5 (S)	74	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
Phenol-d5 (S)	29	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
Terphenyl-d14 (S)	79	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 02:19	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:27	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Arsenic, Total	0.0010J	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Arsenic, Dissolved	0.0011J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Barium, Total	0.268	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Barium, Dissolved	0.245	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Calcium, Total	21.4	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 14:13	TED	F2
Calcium, Dissolved	24.1	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 14:47	JWK	G1
Chromium, Total	0.0020J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Chromium, Dissolved	0.0023	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Copper, Total	0.0007J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Copper, Dissolved	0.0003J	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 14:13	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271002** Date Collected: 3/18/2008 13:46 Matrix: Ground Water

Sample ID: **03MW02I-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 14:47	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Magnesium, Total	9.55	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 14:13	TED	F2
Magnesium, Dissolved	9.74	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 14:47	JWK	G1
Manganese, Total	0.0018J	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Manganese, Dissolved	0.00008J	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:14	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:22	CMD	G3
Nickel, Total	0.0014J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Nickel, Dissolved	0.0008J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Potassium, Total	0.66	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:23	TED	F2
Potassium, Dissolved	0.84	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 14:47	JWK	G1
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Selenium, Dissolved	0.001J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 12:54	LAM	G2
Sodium, Total	7.02	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:23	TED	F2
Sodium, Dissolved	8.17	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 14:47	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Vanadium, Total	0.0018	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Vanadium, Dissolved	0.0017	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:28	SRT	F1
Zinc, Dissolved	0.0065	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 04:23	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0078

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271003 Date Collected: 3/18/2008 15:46 Matrix: Ground Water
Sample ID: 03MW02SI-20080318 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 22:37	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 22:37	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 22:37	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:37	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 22:37	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:37	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 22:37	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:37	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 22:37	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 22:37	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 22:37	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Tetrachloroethene	3.3	ug/L		1.0	0.4	SW846 8260B			3/30/08 22:37	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 22:37	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 22:37	DXN	A

0079

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271003** Date Collected: 3/18/2008 15:46 Matrix: Ground Water

Sample ID: **03MW02SI-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 22:37	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 22:37	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92	%		62-133		SW846 8260B			3/30/08 22:37	DXN	A
Toluene-d8 (S)	110	%		76-127		SW846 8260B			3/30/08 22:37	DXN	A
4-Bromofluorobenzene (S)	92	%		79-114		SW846 8260B			3/30/08 22:37	DXN	A
Dibromofluoromethane (S)	92	%		78-116		SW846 8260B			3/30/08 22:37	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
2-Fluorobiphenyl (S)	88	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
Nitrobenzene-d5 (S)	92	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
Terphenyl-d14 (S)	78	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
Phenol-d5 (S)	36	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
2-Fluorophenol (S)	54	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 04:01	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:30	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Arsenic, Total	0.0004J	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Arsenic, Dissolved	0.0004J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Barium, Total	0.347	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Barium, Dissolved	0.313	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Calcium, Total	23.7	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 14:35	TED	F2
Calcium, Dissolved	26.7	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 14:52	JWK	G1
Chromium, Total	0.0021	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Chromium, Dissolved	0.0024	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Cobalt, Total	0.0002J	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Copper, Total	0.0003J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Iron, Total	0.03J	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 14:35	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271003** Date Collected: 3/18/2008 15:46 Matrix: Ground Water

Sample ID: **03MW02SI-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 14:52	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Magnesium, Total	9.15	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 14:35	TED	F2
Magnesium, Dissolved	9.36	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 14:52	JWK	G1
Manganese, Total	0.0016J	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:18	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:25	CMD	G3
Nickel, Total	0.0013J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Nickel, Dissolved	0.0007J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Potassium, Total	0.64	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:27	TED	F2
Potassium, Dissolved	0.66	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 14:52	JWK	G1
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Selenium, Dissolved	0.001J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 12:57	LAM	G2
Sodium, Total	7.60	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:27	TED	F2
Sodium, Dissolved	9.13	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 14:52	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Vanadium, Total	0.0026	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Vanadium, Dissolved	0.0023	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2
Zinc, Total	0.0020J	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:33	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 04:29	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0081

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271004** Date Collected: 3/18/2008 17:46 Matrix: Ground Water

Sample ID: **03MW02S-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 23:10	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 23:10	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 23:10	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:10	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 23:10	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:10	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 23:10	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:10	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 23:10	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 23:10	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:10	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 23:10	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 23:10	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 23:10	DXN	A

0082

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271004 Date Collected: 3/18/2008 17:46 Matrix: Ground Water
Sample ID: 03MW02S-20080318 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:10	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 23:10	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89	%		62-133		SW846 8260B			3/30/08 23:10	DXN	A
Toluene-d8 (S)	108	%		76-127		SW846 8260B			3/30/08 23:10	DXN	A
Dibromofluoromethane (S)	95	%		78-116		SW846 8260B			3/30/08 23:10	DXN	A
4-Bromofluorobenzene (S)	92	%		79-114		SW846 8260B			3/30/08 23:10	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	86	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
Phenol-d5 (S)	33	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
Terphenyl-d14 (S)	86	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
Nitrobenzene-d5 (S)	91	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
2-Fluorobiphenyl (S)	88	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
2-Fluorophenol (S)	52	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 06:18	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:34	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Antimony, Dissolved	0.0005J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Arsenic, Dissolved	ND	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Barium, Total	0.123	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Barium, Dissolved	0.113	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Calcium, Total	9.59	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 14:41	TED	F2
Calcium, Dissolved	10.8	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 14:56	JWK	G1
Chromium, Total	0.0019J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Chromium, Dissolved	0.0028	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Cobalt, Dissolved	0.0008J	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Copper, Total	0.0003J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Copper, Dissolved	0.0004J	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 14:41	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271004** Date Collected: 3/18/2008 17:46 Matrix: Ground Water

Sample ID: **03MW02S-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 14:56	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Magnesium, Total	4.06	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 14:41	TED	F2
Magnesium, Dissolved	4.45	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 14:56	JWK	G1
Manganese, Total	0.0025J	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Manganese, Dissolved	0.0045	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:21	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:29	CMD	G3
Nickel, Total	0.0016J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Nickel, Dissolved	0.0013J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Potassium, Total	0.93	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:30	TED	F2
Potassium, Dissolved	1.07	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 14:56	JWK	G1
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Selenium, Dissolved	0.0006J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:00	LAM	G2
Sodium, Total	7.58	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:30	TED	F2
Sodium, Dissolved	8.74	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 14:56	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Vanadium, Total	0.0003J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Vanadium, Dissolved	0.0003J	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2
Zinc, Total	0.0027J	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:39	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 04:53	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0084

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271005 Date Collected: 3/19/2008 09:23 Matrix: Ground Water
Sample ID: 03IW01-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/31/08 00:18	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/31/08 00:18	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/31/08 00:18	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:18	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/31/08 00:18	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:18	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/31/08 00:18	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:18	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/31/08 00:18	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/31/08 00:18	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:18	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Tetrachloroethene	6.0	ug/L		1.0	0.4	SW846 8260B			3/31/08 00:18	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/31/08 00:18	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/31/08 00:18	DXN	A

0085

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271005 Date Collected: 3/19/2008 09:23 Matrix: Ground Water
Sample ID: 03IW01-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:18	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/31/08 00:18	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91	%		62-133		SW846 8260B			3/31/08 00:18	DXN	A
Dibromofluoromethane (S)	94	%		78-116		SW846 8260B			3/31/08 00:18	DXN	A
4-Bromofluorobenzene (S)	95	%		79-114		SW846 8260B			3/31/08 00:18	DXN	A
Toluene-d8 (S)	108	%		76-127		SW846 8260B			3/31/08 00:18	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		3.0	0.6	SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	78	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
Nitrobenzene-d5 (S)	81	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
Phenol-d5 (S)	33	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
Terphenyl-d14 (S)	78	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
2-Fluorobiphenyl (S)	77	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
2-Fluorophenol (S)	50	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 07:59	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:37	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Arsenic, Dissolved	0.0005J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Barium, Total	0.590	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Barium, Dissolved	0.520	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Calcium, Total	48.6	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 14:46	TED	F2
Calcium, Dissolved	53.7	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 15:00	JWK	G1
Chromium, Total	0.0013J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Chromium, Dissolved	0.0031	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Copper, Total	ND	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 14:46	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271005 Date Collected: 3/19/2008 09:23 Matrix: Ground Water
Sample ID: 03IW01-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 15:00	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Magnesium, Total	18.5	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 14:46	TED	F2
Magnesium, Dissolved	19.2	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 15:00	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Manganese, Dissolved	ND	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:25	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:32	CMD	G3
Nickel, Total	0.0019J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Nickel, Dissolved	0.0008J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Potassium, Total	1.05	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:32	TED	F2
Potassium, Dissolved	1.07	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 15:00	JWK	G1
Selenium, Total	0.002J	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Selenium, Dissolved	0.002J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:03	LAM	G2
Sodium, Total	15.0	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:32	TED	F2
Sodium, Dissolved	16.8	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 15:00	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Vanadium, Total	0.0014	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Vanadium, Dissolved	0.0015	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:45	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 04:59	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0087

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271006 Date Collected: 3/19/2008 09:44 Matrix: Ground Water
Sample ID: 03SW11-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/31/08 00:51	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/31/08 00:51	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/31/08 00:51	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:51	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/31/08 00:51	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:51	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/31/08 00:51	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:51	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/31/08 00:51	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/31/08 00:51	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 00:51	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/31/08 00:51	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/31/08 00:51	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/31/08 00:51	DXN	A

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271006** Date Collected: 3/19/2008 09:44 Matrix: Ground Water
Sample ID: **03SW11-20080319** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 00:51	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/31/08 00:51	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87	%		62-133		SW846 8260B			3/31/08 00:51	DXN	A
Dibromofluoromethane (S)	94	%		78-116		SW846 8260B			3/31/08 00:51	DXN	A
Toluene-d8 (S)	112	%		76-127		SW846 8260B			3/31/08 00:51	DXN	A
4-Bromofluorobenzene (S)	92	%		79-114		SW846 8260B			3/31/08 00:51	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		3.0	0.6	SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
Terphenyl-d14 (S)	81	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
Phenol-d5 (S)	32	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
2-Fluorobiphenyl (S)	78	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
Nitrobenzene-d5 (S)	82	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
2-Fluorophenol (S)	45	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 08:49	JDA	D1
METALS											
Aluminum, Total	0.174	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:41	LAM	F1
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Barium, Total	0.113	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Calcium, Total	22.3	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 14:58	TED	F2
Chromium, Total	0.0017J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Cobalt, Total	0.0002J	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Copper, Total	0.0030J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Iron, Total	1.06	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 14:58	TED	F2
Lead, Total	0.0009J	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Magnesium, Total	7.47	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 14:58	TED	F2
Manganese, Total	0.197	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:42	CMD	F3
Nickel, Total	0.0020J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Potassium, Total	1.88	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:40	TED	F2
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Sodium, Total	18.8	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:40	TED	F2
Thallium, Total	ND	mg/L		0.001	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271006** Date Collected: 3/19/2008 09:44 Matrix: Ground Water

Sample ID: **03SW11-20080319** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Vanadium, Total	0.0014	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1
Zinc, Total	0.0160	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:50	SRT	F1

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0600

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271007 Date Collected: 3/19/2008 10:13 Matrix: Ground Water

Sample ID: 03SW10-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/31/08 01:25	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/31/08 01:25	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/31/08 01:25	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 01:25	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/31/08 01:25	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 01:25	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/31/08 01:25	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 01:25	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/31/08 01:25	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/31/08 01:25	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/31/08 01:25	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/31/08 01:25	DXN	A
Toluene	0.21J	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/31/08 01:25	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/31/08 01:25	DXN	A

0091

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271007** Date Collected: 3/19/2008 10:13 Matrix: Ground Water
Sample ID: **03SW10-20080319** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/31/08 01:25	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/31/08 01:25	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91	%		62-133		SW846 8260B			3/31/08 01:25	DXN	A
4-Bromofluorobenzene (S)	92	%		79-114		SW846 8260B			3/31/08 01:25	DXN	A
Toluene-d8 (S)	111	%		76-127		SW846 8260B			3/31/08 01:25	DXN	A
Dibromofluoromethane (S)	96	%		78-116		SW846 8260B			3/31/08 01:25	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	84	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
Nitrobenzene-d5 (S)	95	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
Terphenyl-d14 (S)	80	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
Phenol-d5 (S)	36	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
2-Fluorobiphenyl (S)	90	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
2-Fluorophenol (S)	53	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 09:38	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:44	LAM	F1
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Barium, Total	0.0841	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Calcium, Total	16.4	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 15:14	TED	F2
Chromium, Total	0.0015J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Copper, Total	0.0008J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Iron, Total	0.43	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 15:14	TED	F2
Lead, Total	0.00007J	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Magnesium, Total	5.80	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 15:14	TED	F2
Manganese, Total	0.0956	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD-	4/2/08 15:46	CMD	F3
Nickel, Total	0.0012J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Potassium, Total	1.73	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:47	TED	F2
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Sodium, Total	7.67	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:47	TED	F2
Thallium, Total	ND	mg/L		0.001	0.00002	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID:	9728271007	Date Collected:	3/19/2008 10:13	Matrix:	Ground Water
Sample ID:	03SW10-20080319	Date Received:	3/20/2008 11:40		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Vanadium, Total	0.0008J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1
Zinc, Total	0.0036J	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 21:56	SRT	F1

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0093

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271008 Date Collected: 3/19/2008 13:23 Matrix: Ground Water

Sample ID: 03MW07S-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 23:44	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 23:44	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 23:44	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:44	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 23:44	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:44	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 23:44	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:44	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 23:44	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 23:44	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 23:44	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Tetrachloroethene	1.1	ug/L		1.0	0.4	SW846 8260B			3/30/08 23:44	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 23:44	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 23:44	DXN	A

0094

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271008 Date Collected: 3/19/2008 13:23 Matrix: Ground Water

Sample ID: 03MW07S-20080319 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 23:44	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 23:44	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92	%		62-133		SW846 8260B			3/30/08 23:44	DXN	A
Toluene-d8 (S)	108	%		76-127		SW846 8260B			3/30/08 23:44	DXN	A
4-Bromofluorobenzene (S)	96	%		79-114		SW846 8260B			3/30/08 23:44	DXN	A
Dibromofluoromethane (S)	95	%		78-116		SW846 8260B			3/30/08 23:44	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	80	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
Terphenyl-d14 (S)	71	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
2-Fluorobiphenyl (S)	83	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
Nitrobenzene-d5 (S)	86	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
Phenol-d5 (S)	33	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
2-Fluorophenol (S)	50	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 10:29	JDA	D1
METALS											
Aluminum, Total	0.096	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:55	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Arsenic, Dissolved	ND	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Barium, Total	0.625	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Barium, Dissolved	0.544	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	4/1/08 11:55	LAM	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Calcium, Total	62.9	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 15:20	TED	F2
Calcium, Dissolved	71.1	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 15:13	JWK	G1
Chromium, Total	0.0022	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Chromium, Dissolved	0.0034	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Cobalt, Total	0.0002J	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Copper, Total	0.0001J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Iron, Total	0.09	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 15:20	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271008** Date Collected: 3/19/2008 13:23 Matrix: Ground Water
Sample ID: **03MW07S-20080319** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 15:13	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Magnesium, Total	16.2	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 15:20	TED	F2
Magnesium, Dissolved	17.1	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 15:13	JWK	G1
Manganese, Total	0.0129	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Manganese, Dissolved	0.0001J	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:49	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:43	CMD	G3
Nickel, Total	0.0048J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Nickel, Dissolved	0.0029J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Potassium, Total	1.06	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:49	TED	F2
Potassium, Dissolved	1.18	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 15:13	JWK	G1
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Selenium, Dissolved	0.001J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:05	LAM	G2
Sodium, Total	22.4	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:49	TED	F2
Sodium, Dissolved	26.0	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 15:13	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Vanadium, Total	0.0006J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Vanadium, Dissolved	0.0007J	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2
Zinc, Total	0.0024J	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 22:13	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 05:05	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

9600

ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271009** Date Collected: 3/19/2008 14:53 Matrix: Ground Water

Sample ID: **RB-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 19:49	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 19:49	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 19:49	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:49	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 19:49	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:49	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 19:49	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:49	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 19:49	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 19:49	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 19:49	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Tetrachloroethene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 19:49	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 19:49	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 19:49	DXN	A

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271009** Date Collected: 3/19/2008 14:53 Matrix: Ground Water
Sample ID: **RB-20080318** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 19:49	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 19:49	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89	%		62-133		SW846 8260B			3/30/08 19:49	DXN	A
Dibromofluoromethane (S)	92	%		78-116		SW846 8260B			3/30/08 19:49	DXN	A
Toluene-d8 (S)	107	%		76-127		SW846 8260B			3/30/08 19:49	DXN	A
4-Bromofluorobenzene (S)	93	%		79-114		SW846 8260B			3/30/08 19:49	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	81	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
Terphenyl-d14 (S)	79	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
Phenol-d5 (S)	32	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
2-Fluorobiphenyl (S)	86	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
Nitrobenzene-d5 (S)	88	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
2-Fluorophenol (S)	49	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 11:18	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/27/08	SRT	4/1/08 11:59	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Antimony, Dissolved	0.0005J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Arsenic, Dissolved	ND	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Barium, Total	0.0001J	mg/L		0.0060	0.00005	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Barium, Dissolved	0.0002J	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/27/08	SRT	4/1/08 11:59	LAM	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Cadmium, Total	0.0001J	mg/L		0.0010	0.00001	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Calcium, Total	0.06J	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 15:37	TED	F2
Calcium, Dissolved	ND	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 15:18	JWK	G1
Chromium, Total	0.0013J	mg/L		0.0020	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Chromium, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Cobalt, Dissolved	ND	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Copper, Total	0.0006J	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 15:37	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271009 Date Collected: 3/19/2008 14:53 Matrix: Ground Water
Sample ID: RB-20080318 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 15:18	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Magnesium, Total	ND	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 15:37	TED	F2
Magnesium, Dissolved	ND	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 15:18	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Manganese, Dissolved	0.00004J	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:53	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:46	CMD	G3
Nickel, Total	ND	mg/L		0.0060	0.00006	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Nickel, Dissolved	ND	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Potassium, Total	ND	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:51	TED	F2
Potassium, Dissolved	ND	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 15:18	JWK	G1
Selenium, Total	ND	mg/L		0.006	0.001	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Selenium, Dissolved	ND	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:08	LAM	G2
Sodium, Total	ND	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:51	TED	F2
Sodium, Dissolved	ND	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 15:18	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Vanadium, Total	0.0002J	mg/L		0.0010	0.00003	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Vanadium, Dissolved	ND	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/27/08	SRT	3/31/08 22:18	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 05:10	AJB	G2
WET CHEMISTRY											
Hexavalent Chromium	ND	mg/L		0.01	0.01	SW846 7196A			3/20/08 12:45	LMM	H

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0099

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: 9728271010 Date Collected: 3/19/2008 15:23 Matrix: Ground Water
Sample ID: DUP-03 Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	ND	ug/L		10.0	4	SW846 8260B			3/30/08 21:30	DXN	A
Benzene	ND	ug/L		1.0	0.4	SW846 8260B			3/30/08 21:30	DXN	A
Bromochloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Bromodichloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Bromoform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Bromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
2-Butanone	ND	ug/L		10.0	3	SW846 8260B			3/30/08 21:30	DXN	A
Carbon Disulfide	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 21:30	DXN	A
Carbon Tetrachloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Chlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Chlorodibromomethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Chloroethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
Chloroform	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Chloromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Cyclohexane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
1,2-Dibromo-3-chloropropane	ND	ug/L		7.0	2	SW846 8260B			3/30/08 21:30	DXN	A
1,2-Dibromoethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
1,2-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,3-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,4-Dichlorobenzene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Dichlorodifluoromethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,1-Dichloroethane	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 21:30	DXN	A
1,2-Dichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,1-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
cis-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
trans-1,2-Dichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,2-Dichloropropane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
cis-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
trans-1,3-Dichloropropene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Ethylbenzene	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
Freon 113	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
2-Hexanone	ND	ug/L		5.0	0.7	SW846 8260B			3/30/08 21:30	DXN	A
Isopropylbenzene	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 21:30	DXN	A
Methyl acetate	ND	ug/L		2.0	0.5	SW846 8260B			3/30/08 21:30	DXN	A
Methyl cyclohexane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Methyl t-Butyl Ether	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/L		5.0	1	SW846 8260B			3/30/08 21:30	DXN	A
Methylene Chloride	ND	ug/L		1.0	0.1	SW846 8260B			3/30/08 21:30	DXN	A
Styrene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Tetrachloroethene	6.3	ug/L		1.0	0.4	SW846 8260B			3/30/08 21:30	DXN	A
Toluene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,2,3-Trichlorobenzene	ND	ug/L		2.0	0.6	SW846 8260B			3/30/08 21:30	DXN	A
1,2,4-Trichlorobenzene	ND	ug/L		2.0	0.7	SW846 8260B			3/30/08 21:30	DXN	A

0100

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271010** Date Collected: 3/19/2008 15:23 Matrix: Ground Water
Sample ID: **DUP-03** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
1,1,2-Trichloroethane	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Trichloroethene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
Trichlorofluoromethane	ND	ug/L		1.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
Vinyl Chloride	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
o-Xylene	ND	ug/L		1.0	0.2	SW846 8260B			3/30/08 21:30	DXN	A
mp-Xylene	ND	ug/L		2.0	0.3	SW846 8260B			3/30/08 21:30	DXN	A
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91	%		62-133		SW846 8260B			3/30/08 21:30	DXN	A
Dibromofluoromethane (S)	98	%		78-116		SW846 8260B			3/30/08 21:30	DXN	A
Toluene-d8 (S)	110	%		76-127		SW846 8260B			3/30/08 21:30	DXN	A
4-Bromofluorobenzene (S)	94	%		79-114		SW846 8260B			3/30/08 21:30	DXN	A
SEMIVOLATILES											
1,4-Dioxane	ND	ug/L		2.9	0.6	SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
Surrogate Recoveries	*Results*	*Units*	*Footnotes*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	85	%		40-125		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
Terphenyl-d14 (S)	81	%		27-136		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
Phenol-d5 (S)	34	%		10-49		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
2-Fluorobiphenyl (S)	84	%		32-108		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
Nitrobenzene-d5 (S)	85	%		31-110		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
2-Fluorophenol (S)	52	%		20-70		SW846 8270D	3/25/08	CAC	3/27/08 12:08	JDA	D1
METALS											
Aluminum, Total	ND	mg/L		0.080		SW846 6020	3/28/08	MNP	4/1/08 12:02	LAM	F1
Aluminum, Dissolved	ND	mg/L		0.080	0.007	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Antimony, Total	ND	mg/L		0.0020	0.00005	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Antimony, Dissolved	0.0004J	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Arsenic, Total	ND	mg/L		0.0060	0.0004	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Arsenic, Dissolved	0.0002J	mg/L		0.0050	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Barium, Total	0.589	mg/L		0.0060	0.00005	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Barium, Dissolved	0.473	mg/L		0.0050	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Beryllium, Total	ND	mg/L		0.0010	0.00007	SW846 6020	3/28/08	MNP	4/1/08 12:02	LAM	F1
Beryllium, Dissolved	ND	mg/L		0.0010	0.00006	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Cadmium, Total	ND	mg/L		0.0010	0.00001	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Cadmium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Calcium, Total	47.7	mg/L	1	0.11	0.003	SW846 6010C	4/2/08	SRT	4/2/08 15:42	TED	F2
Calcium, Dissolved	50.1	mg/L		0.10	0.03	SW846 6010C	3/25/08	JWK	3/25/08 15:22	JWK	G1
Chromium, Total	0.0014J	mg/L		0.0020	0.00006	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Chromium, Dissolved	0.0027	mg/L		0.0020	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Cobalt, Total	ND	mg/L		0.0060	0.00003	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Cobalt, Dissolved	0.0002J	mg/L		0.0050	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Copper, Total	0.0006J	mg/L		0.0060	0.00006	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Copper, Dissolved	ND	mg/L		0.0050	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Iron, Total	ND	mg/L		0.07	0.02	SW846 6010C	4/2/08	SRT	4/2/08 15:42	TED	F2

ANALYTICAL LABORATORY SERVICES, INC.
www.analyticallab.com
NELAP Accredited
PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder: 9728271 TWK002|GW NASJRB CTO 0412

Lab ID: **9728271010** Date Collected: 3/19/2008 15:23 Matrix: Ground Water

Sample ID: **DUP-03** Date Received: 3/20/2008 11:40

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Dissolved	ND	mg/L		0.06	0.009	SW846 6010C	3/25/08	JWK	3/25/08 15:22	JWK	G1
Lead, Total	ND	mg/L		0.0020	0.00002	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Lead, Dissolved	ND	mg/L		0.0020	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Magnesium, Total	18.1	mg/L		0.11	0.01	SW846 6010C	4/2/08	SRT	4/2/08 15:42	TED	F2
Magnesium, Dissolved	17.8	mg/L		0.10	0.006	SW846 6010C	3/25/08	JWK	3/25/08 15:22	JWK	G1
Manganese, Total	ND	mg/L		0.0060	0.00004	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Manganese, Dissolved	0.0007J	mg/L		0.0040	0.00003	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Mercury, Total	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 15:56	CMD	F3
Mercury, Dissolved	ND	mg/L		0.0005	0.00003	SW846 7470A	4/2/08	CMD	4/2/08 17:59	CMD	G3
Nickel, Total	0.0019J	mg/L		0.0060	0.00006	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Nickel, Dissolved	0.0009J	mg/L		0.0050	0.0001	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Potassium, Total	1.02	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:53	TED	F2
Potassium, Dissolved	0.96	mg/L		0.50	0.1	SW846 6010C	3/25/08	JWK	3/25/08 15:22	JWK	G1
Selenium, Total	0.002J	mg/L		0.006	0.001	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Selenium, Dissolved	0.001J	mg/L		0.005	0.0002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Silver, Total	0.0006J	mg/L		0.0010	0.00004	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Silver, Dissolved	ND	mg/L		0.0010	0.0003	SW846 6020	4/1/08	AJB	4/3/08 13:17	LAM	G2
Sodium, Total	14.8	mg/L		0.56		SW846 6010C	4/2/08	SRT	4/3/08 13:53	TED	F2
Sodium, Dissolved	15.6	mg/L		0.50	0.05	SW846 6010C	3/25/08	JWK	3/25/08 15:22	JWK	G1
Thallium, Total	ND	mg/L		0.0010	0.00002	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Thallium, Dissolved	ND	mg/L		0.0010	0.00001	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Vanadium, Total	0.0015	mg/L		0.0010	0.00003	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Vanadium, Dissolved	0.0013	mg/L		0.0010	0.00002	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2
Zinc, Total	ND	mg/L		0.0060	0.002	SW846 6020	3/28/08	MNP	3/31/08 22:24	SRT	F1
Zinc, Dissolved	ND	mg/L		0.0050	0.0005	SW846 6020	4/1/08	AJB	4/1/08 05:16	AJB	G2

Sample Comments:

Raymond J. Martrano
Laboratory Manager

01102

APPENDIX C

Support Documentation

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTOD
REQUEST FOR ANAL

ALL SHADED AREAS MUST BE COMPL
CLIENT / SAMPLER. INSTRUCTIONS C

* 9 7 2 7 8 1 4 *

COC# 9727814

Co. Name: Tetra Tech NUS
Contact (Report to): Russ Turner Phone: 610 491 9688
Address: 234 Mall Boulevard
Suite 260
King of Prussia PA 19406

Bill to (if different than Report to): Tetra Tech NUS PO#:
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

Project Name/#: ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required:
[ ] Rush-Subject to ALSI approval and surcharges. Approved By:

Email? [ ] Y
Fax? [ ] Y No:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TCL VOC 8260B	1,4 Dioxane 8270C	Total TAL Metals	Dissolved Metals	Hex. Chromium	Internal COC Required
						Enter Number of Containers Per Analysis					
1 TB-20080314	recd 3/18/08 4:55 GK	3/14/08	1630	G	Aq	2					
2 03MW04S-20080314		3/14/08	1735	G	GW	2	2	1	1		
3 03MW03SI-20080317		3/17/08	1010	G	GW	2	2	1	1		
4 DUP-02		3/17/08	0000	G	GW	2	2	1	1		
5 03MW03S-20080317	Bottles market 1327 Fax time DCS 3/18	3/17/08	1027	G	GW	2	2	1	1		
6 03MW03I-20080317		3/17/08	1637	G	GW	2	2	1	1	1	
7											
8											

**Container Type	CG	4AG/CG	Poly	Poly	Poly			
**Container Size	40ml	1L/40ml	500ml	500ml	1L			
Preservative	HCl	4°C	HNO3	HNO3	4°C			

Receipt Information (completed by Sample Receiver)
Performed by: ALSI, INC.
Cooler Temp: 3°C
Therm. ID: 510235579
No. of Coolers: 2
Notes:

Correct containers?	Y	N	N	N
Correct sample volume?	Y	N	N	N
Correct preservation?	Y	N	N	N
Headspace/Volatiles?	Y	N	N	N
Circle appropriate Y or N.				
Custody seals Present?	Y	N	N	N
(If present) Seals Intact?	Y	N	N	N
Received on ice?	Y	N	N	N
COC/Labels complete/accurate?	Y	N	N	N
Container in good condition?	Y	N	N	N

SAMPLED BY (Please Print): Donald Whalen
LOGGED BY (signature): [signature] Date: 3/18/08 Time: 1604
REVIEWED BY (signature): [signature] Date: 03-18-08 Time: 1200

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Donald Whalen	3/17/08	1920	2 C. Cable / ALSI	3/18/08	11:45
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] [ ]
EDDs Required? [ ] If yes, format type:
EMA Format? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? NJ [ ] NY [ ] PA [ ]
Other
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite *Matrix: Air=Air; DW=Drinking Water; GW=Groundwater; OH=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY **Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Rev 6/07

ANALYTICAL LABORATORY SERVICES, INC.
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430
www.analyticallab.com
NELAP Accredited PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier: Federal Exp
Tracking #: 8646 0967 0

* 9 7 2 8 2 7 1 *

Co. Name: Tetra Tech NUS
Contact (Report to): Russ Turner Phone: 610 491 9688
Address: 234 Mall Boulevard
Suite 260
King of Prussia, PA 19406

Bill to (if different than Report to): Tetra Tech NUS PO#:
7 Foster Plaza
661 Andersen Drive

Project Name/#: Pittsburgh PA ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required:
[ ] Rush-Subject to ALSI approval and surcharges. Approved By:

Email? [ ] -Y
Fax? [ ] -Y No:

Cooler Temp: 3°C
Therm. ID: 5103459
No. of Coolers:
Notes:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TCL VOC 8260B	1,4-Dioxane 8270C	Total TAL Metals	Dissolved TAL Metals	Internal COC Required	Correct container?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	**Container Type						GG	AG	Poly	Poly						
	**Container Size						40ml	1Lit	500 ml	500 ml						
	Preservative						HCl	4°C	HNO3	HNO3						
6200	TB-20080318		3/18/08	1200	G	RQ	2					Y	Y	Y	(N)	Y
2	03MW02S-20080318		3/18/08	1346	G	GW	2	2	1	1		N	N	N	N	N
3	03MW02SR-20080318		3/18/08	1546	G	GW	2	2	1	1		Y	Y	Y	Y	Y
4	03MW02S-20080318		3/18/08	1746	G	GW	2	2	1	1						
5	03EW01-20080319		3/19/08	0923	G	GW	2	2	1	1						
6	03SW11-20080319		3/19/08	0944	G	GW	2	2	1							
7	03SW10-20080319		3/19/08	1013	G	GW	2	2	1							
8	03MW07S-20080319		3/19/08	1323	G	GW	2	2	1	1						

Custody seals Present? Y
(If present) Seals intact? Y
Received on Ice? Y
COC/Labels complete/accurate? Y
Container in good condition? Y

SAMPLED BY (Please Print): Charles Meyer
LOGGED BY (signature): Date 3/20/08 Time 11:40
REVIEWED BY (signature): Date 03/25/08 Time 1113

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Charles Meyer TtNUS	3/19/08	1900	2		
3			4	3/20/08	11:40
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected in? MD [ ] NJ [ ] NY [ ] PA [ ]
Other

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite **Matrix: AirAir; DWDrinking Water; GWGroundwater; OiOil; OLOther Liquid; SLSludge; SOSoil; WPWipe; WWWastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Rev 6/07

ANALYTICAL LABORATORY SERVICES, INC.
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430
www.analyticallab.com
NELAP Accredited PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2
Courier: Federal Express
Tracking #: 8646 0967 0850
COC# 9728271

Co. Name: Tetra Tech NUS
Contact (Report to): Russ Turner Phone: 610 491 4688
Address: 234 Mall Boulevard Suite 260 King of Prussia, PA 19406

Bill to (if different from Report to): Tetra Tech NUS PO#:
7 Foster Plaza 661 Andersen Drive
Project Name/#: Pittsburgh, PA 15 ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required:
[ ] Rush-Subject to ALSI approval and surcharges. Approved By:

Email? [ ] Y
Fax? [ ] Y No:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TCL VOC 8260B	1,4-Dioxane 8260C	Total TAL Metals	Dissolved TAL Metals	Hexavalent Chromium 7196A								Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
							Enter Number of Containers Per Analysis																
0030 1	RB-20080318		3/18/08	1453	G	AQ	2	2	1	1	2								Y	Y	Y	Y	Y
2	DUP-03		3/18/08	1523	G	GW	2	2	1	1									Y	Y	Y	Y	Y
3																							
4																							
5																							
6																							
7																							
8																							

Internal COC Required?

	Container Type	Container Size	Preservative
	CG	AG	Poly
	40ml	1 Liter	500 ml
	HCl	4°C	HNO3

Receipt Information (completed by lab/sampler)
Received by:
Cooler Temp: 1.3°C
Tracking #: 5023855
No. of Coolers:
Notes:

SAMPLED BY (Please Print):
LOGGED BY (signature): Date 3/20/08 Time 1460
REVIEWED BY (signature): Date 03/25/08 Time 1113

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] TtNUS	3/18/08	1900	2 [signature]	3/20/08	1160
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
State Forms Req: yes [ ] yes [ ] yes [ ] yes [ ]
State Sampler Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
EDD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

*G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Rev 6/07

ANALYTICAL LABORATORY SERVICES, INC.
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430
www.analyticallab.com
NELAP Accredited PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH NELAC

Tetra Tech NUS, Inc.
NASJRB Willow Grove, PA
CTO-0412

Analytical Laboratory Services Inc.
Analytical Narrative
TWK-002

Sample Management

This report contains the results of the analysis of sixteen (16) water samples collected on March 14, 17, 18 and 19, 2008. Analytical results and quality control information are summarized in this data package.

Sample Receipt

Samples arrived at ALSI via courier on March 18 and 20, 2008. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. All sample bottles were preserved properly. Each sample was assigned a unique identification number (see Certificates of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by SW-846 Method 8260

Sample Handling. Sixteen (16) water samples were analyzed by SW-846 Method 8260 for volatile organic compounds on MS05. All analyses were performed within the holding time.

Initial Calibrations. A six-point calibration was analyzed on MS05 on March 11, 2008. This calibration was used to quantitate the samples, blank and spikes. The initial calibration met method criteria for all target analytes.

Continuing Calibration Checks. A continuing calibration check standard was analyzed on MS05 on March 26, 2008, March 27, 2008, March 29,2008, and March 30, 2008. The continuing calibration checks met method criteria for all analytes.

Blanks. Four method blanks, identified as 452746, 453224, 453907, and 453929, were analyzed with the samples and included in this deliverable group. No target analytes were detected in the method blanks.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All samples, blanks and spikes had surrogate recoveries within QC limits.

Internal Standards. A three-component internal standard mix was added to each sample, blank and spike. The internal standards were recovered within QC limits in all of the samples and associated QC.

Spiked Blanks. Four spiked blanks, identified as 452747, 453225, 453908 and 453930, were analyzed with the samples. All target analyte recoveries were within QC limits in the spiked blanks with the exception of Chloromethane, and Freon 113, which were recovered above QC limits in the spiked blanks identified as 452747, 453225 and 453930; and mp-Xylene, which was recovered above QC limits in the spiked blank identified as 453225. These analytes were not detected in the project samples, indicating no impact on data.

Matrix Spikes. A matrix spike and matrix spike duplicate, identified as 452764 and 452765, were analyzed on March 27, 2008 from the client's sample identified as 9727450003 (03MW06S). All recoveries were within QC limits for the matrix spike and matrix spike duplicate.

A matrix spike and matrix spike duplicate, identified as 453915 and 453916, were analyzed on March 29, 2008 from another client's sample identified as 9728165006 (MW-6). All recoveries were within QC limits for the matrix spike and matrix spike duplicate with the exception of Chloromethane, and Carbon Disulfide, which were recovered above QC limits in the matrix spike.

Semi-volatile Organic Chemicals by Method 8270

Sample Handling. Fourteen (14) water samples were extracted by SW-846 Method 3510 and the extract was analyzed by SW-846 Method 8270 for semi-volatile organic chemicals. The samples, extraction blanks and spikes were analyzed on MS08. All extractions and analyses were performed within holding time.

Initial Calibrations. An eight-point calibration for SW-846 Method 8270 was analyzed on MS08 on March 3, 2008. This calibration was used for the analyses of the samples, blank and spikes. The initial calibration met method criteria for all target analytes.

Calibration Checks. Calibration check standards for SW-846 Method 8270 were analyzed properly. The calibration checks met method criteria for the target analyte.

Blanks. Two method blanks, identified as 450577, and 452165, were extracted and analyzed with the samples. No target compounds were detected in the method blank.

Surrogates. An eight-component surrogate mix was added to the sample, blank and spikes. Several surrogates were recovered outside of QC limits in sample 03MW03SI-200 (9727814003). In another batch, the MB452165 exhibited low recoveries for two surrogate compounds. Associated samples exhibited recoveries within QC limits.

Sample DUP-02 (972781004) exhibited surrogate recoveries less than 10%. Per notes on the extraction log, this sample experienced extraction problems. The sample was re-extracted past the holding time to confirm the target analyte concentration. In the re-extraction, surrogate recoveries were within QC limits, and the target analyte was confirmed not to be present.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spike for SW-846 Method 8270. All internal standards had recoveries within QC limits.

Blank Spikes. Two blank spikes, identified as 450578, and 452167, were spiked at 100 □g/L, and were extracted and analyzed with the samples by method 8270. All recoveries were within QC limits for the spiked blanks.

Matrix Spikes. A matrix spike and matrix spike duplicate, identified as 450579 and 450580 respectively, were analyzed with batch sample 9728129007. The target analyte was recovered within QC limits in the matrix spike and matrix spike duplicate.

Matrix Spike. A matrix spike, identified as 452169, was analyzed with a client's sample, identified as 9728271002 (03MW02I), is included for validation purposes. All analytes were recovered within QC limits in the matrix spike.

Duplicate. A duplicate, identified as 452170, was analyzed with a project sample, identified as 9728271004 (03MW02S). All analytes exhibited precision within method criteria.

Total Metals by EPA Method 6010C

Sample handling. Fourteen (14) water samples were analyzed for total metals on the TJA TRACE ICP using EPA Method 6010C. The samples were analyzed within the six-month holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, an interference check standard (ICSA), and an interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for this method.

Blanks. Reagent (calibration) blanks were analyzed following the calibrations, after every ten samples, and at the conclusion of each run. Metals were not present in any of the reagent blanks at a detectable level. Three method blank, identified as samples 454005-MB, 454445-MB, and 454449-MB, were digested and analyzed with the samples in this deliverable group. Metals were not found at detectable levels in the method blanks.

Laboratory Control Sample. Three laboratory control samples, identified as 454006-LCS, 454446-LCS, and 454450-LCS, were also digested and analyzed with the samples in this deliverable group. All LCS spike recoveries were within the control limits of 80-120%.

Spikes. A matrix spike and matrix spike duplicate, identified as 454451 and 454452, were digested and analyzed on sample 9728271006 (03SW11-20080319), in this deliverable group. All MS/MSD recoveries and their RPD's were within the control limits for this method. The calcium analyte concentration in the sample was greater than ten times the concentration of our spiking solution. For this reason, calcium spike recoveries were not calculated, and are not valid.

Total Sodium and Potassium by EPA Method 6010C

Sample handling. Fourteen (14) water samples were analyzed for total sodium and potassium on the TJA IRIS ICP using EPA Method 6010C. The samples were analyzed within the six-month holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, an interference check standard (ICSA), and an interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for this method.

Blanks. Reagent (calibration) blanks were analyzed following the calibrations, after every ten samples, and at the conclusion of each run. Metals were not present in any of the reagent blanks at a detectable level. Three method blanks, identified as samples 454005-MB, 454445-MB, and 454449-MB, were digested and analyzed with the samples in this deliverable group. Metals were not found at detectable levels in the method blanks.

Laboratory Control Sample. Three laboratory control samples, identified as 454006-LCS, 454446-LCS, and 454450-LCS, were also digested and analyzed with the samples in this deliverable group. All LCS spike recoveries were within the control limits of 80-120%.

Spikes. A matrix spike and matrix spike duplicate, identified as 454451 and 454452, were digested and analyzed on sample 9728271006 (03SW11-20080319), in this deliverable group. The sodium and potassium MS/MSD recoveries and their RPD's were within the control limits for this method.

Dissolved Metals by EPA Method 6010C

Sample handling. Twelve (12) water samples were analyzed for dissolved metals on the ThermoFisher ICP6500 using EPA Method 6010C. The samples were analyzed within the six-month holding time established for the method.

Calibration. The day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, and an interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for this method, with the exception of the calcium reporting limit standard. The recovery exceeded DOD criterion of 80-120%, but was within method specifications. Data were not impacted.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Metals were not present in any of the reagent blanks at a detectable level. Two method blanks, identified as samples 452129-MB and 452139-MB, were analyzed with the samples in this deliverable group. Metals were not found at detectable levels in the method blanks.

Laboratory Control Sample. Two laboratory control samples, identified as 452130-LCS and 452140-LCS, were also analyzed with the samples in this deliverable group. All LCS spike recoveries were within the control limits of 80-120%.

Spikes. A matrix spike and matrix spike duplicate, identified as 452131 and 452132, were prepared and analyzed on sample 9727814004 (DUP-02), in this deliverable group. All MS/MSD recoveries and their RPD's were within the control limits for this method. The calcium and magnesium analyte concentrations in the sample were greater than ten times the concentrations of our spiking solution. For this reason, spike recoveries were not calculated, and are not valid for these elements.

TOTAL METALS by SW-846 Method 6020

Sample handling. Fourteen (14) aqueous samples were analyzed for total metals on the ELAN 6000 ICP-MS and Elan DRCe ICP-MS using SW-846 Method 6020A. The samples were analyzed within the six-month holding time established for this method.

Calibration. Prior to calibration, mass calibration and resolution checks were conducted on the instrument. All criteria associated with the mass calibration and resolution checks were within control. The instrument was calibrated for metals using a blank and five to seven calibration standards. The calibration was verified prior to running samples through the analysis of a second source standard. A continuing calibration standard was analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and calibration verification standards were within control limits.

Blanks. Reagent blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Metals were not present in any of the reagent blanks at a detectable level. Method blanks, identified as 451673-MB, 452826-MB, and 452963-MB, were analyzed with the samples in this deliverable group. Metals were not present in the method blanks.

Laboratory Control Samples. Laboratory control samples, identified 451674-LCS, 452827-LCS, and 452964-LCS, were analyzed with the samples in this deliverable group. The LCS recoveries were within the control limits for this method.

Matrix Spike/Matrix Spike Duplicate. A matrix spike/matrix spike duplicate identified as 451675 and 451676, was digested and analyzed on sample 9727814003 (03MW03SI-20080317) in this deliverable group. The MS/MSD recoveries and their RPD were within the control limits for this method for all elements.

DISSOLVED METALS by SW-846 Method 6020

Sample handling. Fourteen (14) aqueous samples were analyzed for dissolved metals on the ELAN 6000 ICP-MS and Elan DRCe ICP-MS using SW-846 Method 6020A. The samples were analyzed within the six-month holding time established for this method.

Calibration. Prior to calibration, mass calibration and resolution checks were conducted on the instrument. All criteria associated with the mass calibration and resolution checks were within control. The instrument was calibrated for metals using a blank and five to seven calibration standards. The calibration was verified prior to running samples through the analysis of a second source standard. A continuing calibration standard was analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and calibration verification standards were within control limits.

Blanks. Reagent blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Metals were not present in any of the reagent blanks at a detectable level. A method blank, identified as 454249-MB, was analyzed with the samples in this deliverable group. Metals were not present in the method blank.

Laboratory Control Samples. Laboratory control sample, identified 454250-LCS, was analyzed with the samples in this deliverable group. The LCS recoveries were within the control limits for this method.

Matrix Spike/Matrix Spike Duplicate. A matrix spike/matrix spike duplicate identified as 454251 and 454252, was digested and analyzed on sample 9727814002 (03MW04S-20080314) in this deliverable group. The MS/MSD recoveries and their RPD were within the control limits for this method for all elements, except silver. Silver was recovered below QC limits in the spikes.

Total Mercury by Method 7470D

Sample handling. Fourteen (14) water samples were analyzed for total mercury on the CETAC Hg Analyzer, using Method 7470D. The samples were digested and analyzed within the 28-day holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial five-point calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not detected in the reagent blanks. Method Blanks, identified as 453002-MB and 454534-MB, were digested and analyzed with the samples in this deliverable group. Mercury was not detected in the method blanks.

Laboratory Control Samples. Two laboratory control samples, identified as 453003-LCS and 454535-LCS, were digested and analyzed for total mercury with the samples in this deliverable group. The mercury recovery was within the control limit for this method.

Spikes. A matrix spike/matrix spike duplicate identified as 453004 and 453005, were digested and analyzed on sample 97278140060 (03MW03I-20080317), in this deliverable group. The mercury MS/MSD recoveries and their RPD were within the control limits for this method.

A matrix spike/matrix spike duplicate identified as 454536 and 454537, were also digested and analyzed on sample 9728271005 (03IW01-20080319), in this deliverable group. The mercury MS/MSD recoveries and their RPD were within the control limits for this method.

Dissolved Mercury by Method 7470D

Sample handling. Twelve (12) water samples were analyzed for dissolved mercury on the CETAC Hg Analyzer, using Method 7470D. The samples were digested and analyzed within the 28-day holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial five-point calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of each run. All criteria associated with the calibration and check standards were within control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibrations, after every ten samples, and at the conclusion of each run. Mercury was not detected in the reagent blanks. Two method blanks, identified as 453014-MB and 454528-MB, were digested and analyzed with the samples in this deliverable group. Mercury was not detected in the method blanks

Laboratory Control Samples. Two laboratory control samples, identified as 453015-LCS and 454529-LCS, were digested and analyzed for total mercury with the samples in this deliverable group. The mercury recoveries were within the control limits for this method.

Spikes. A matrix spike/matrix spike duplicate identified as 453016 and 453017, were digested and analyzed on sample 9727814005 (03MW03S-20080317), in this deliverable group. The mercury MS/MSD recoveries and their RPD were within the control limits for this method.

A matrix spike/matrix spike duplicate identified as 454530 and 454531, were digested and analyzed on sample 9728271005 (03IW01-20080319), in this deliverable group. The mercury MS/MSD recoveries and their RPD were within the control limits for this method.

Hexavalent Chromium by SW-846 7196A

Sample handling. Two (2) aqueous samples were analyzed for hexavalent chromium by SW-846 Method 7196A. The samples were analyzed within the 24-hour method-recommended holding time.

Calibration. Five-point calibrations were properly established, and continuing calibration verification standards were analyzed to verify the calibration. The recoveries were within the QC limits of 90-110%.

Blanks. Initial and continuing blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit in the blanks.

Spikes. A matrix spike and matrix spike duplicate analysis was performed on samples 9727814006 (03MW03I-20080317) and 9728271009 (RB-20080318). The spike recoveries were within the QC limits of 85-115%. The relative percent differences between the results were within the QC limits of 15%.

Dissolved metals

Sample Description
03MW04S-20080314

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: 6020
Matrix (soil/water): WATER
Units: mg/L
% moisture: NA
Date Analyzed: 4/3/2008

SDG No.: TWK-002
Lab Sample ID: 454251/454252(9727814002)
Lab File ID: D040308
Instrument ID: ELAN DRCe
GC Column: NA

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
SILVER	0.100	-0.00088	0.073	74	*	75-125

Analyte	Spike Added	MSD Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
SILVER	0.100	0	0	*	75-125	200	*	20

(1) The following qualifiers are used:
* : Values outside of acceptable limits
D : Spikes diluted out

Comments: These results are not prep factor corrected.
Silver was not added to the matrix spike duplicate. (454252)

2208

Form 5B2
ICPMS Interference Check AB Summary

Analysis Method: 6020
Date Analyzed: 3/31/2008
Instrument ID: ELAN DRCe

SDG No.: TWK-002

Total metals

Concentration Units: mg/L

Analyte	Int. Check Concentration Added	Initial Analysis						Acceptable Limits (%)
		Int. Check Concentration Found	Recovery	(1)	Int. Check Concentration Found	Recovery	(1)	
BERYLLIUM	0.0	-0.000193						(-.001 to .001)
ALUMINUM	100	88.7	89					80-120
VANADIUM	0.040	0.0415	104					80-120
CHROMIUM	0.020	0.0263	131	*				80-120
MANGANESE	0.020	0.0250	125	*				80-120
COBALT	0.040	0.0442	110					80-120
NICKEL	0.040	0.0473	118					80-120
COPPER	0.020	0.0231	116					80-120
ZINC	0.020	0.0276	138	*				80-120
ARSENIC	0.020	0.0220	110					80-120
SELENIUM	0.020	0.0228	114					80-120
MOLYBDENUM	2.00	2.15	108					80-120
SILVER	0.020	0.0194	97					80-120
CADMIUM	0.010	0.0100	100					80-120
ANTIMONY	0.0	-0.000089						(-.002 to .002)
BARIUM	0.0	0.000398						(-.005 to .005)
THALLIUM	0.0	-0.000299						(-.001 to .001)
LEAD	0.0	0.000884						(-.002 to .002)

(1) The following qualifiers are used: * : Value outside of acceptable limits

Comments:
NOTE:

1973

Form 5B2
ICPMS Interference Check AB Summary

Analysis Method: 6020
Date Analyzed: 4/1/2008
Instrument ID: ELAN 6000

SDG No.: TWK-002

Dissolved metals

Concentration Units: mg/L

Analyte	Int. Check Concentration Added	Initial Analysis						Acceptable Limits (%)
		Int. Check Concentration Found	Recovery	(1)	Int. Check Concentration Found	Recovery	(1)	
BERYLLIUM	0.0	-0.000367						(-.001 to .001)
ALUMINUM	100	102	102					80-120
VANADIUM	0.040	0.0402	101					80-120
CHROMIUM	0.020	0.0418	209	*				80-120
MANGANESE	0.020	0.0262	131	*				80-120
COBALT	0.040	0.0413	103					80-120
NICKEL	0.040	0.0497	124	*				80-120
COPPER	0.020	0.0202	101					80-120
ZINC	0.020	0.0242	121	*				80-120
ARSENIC	0.020	0.0202	101					80-120
SELENIUM	0.020	0.0201	100					80-120
MOLYBDENUM	2.00	2.12	106					80-120
SILVER	0.020	n/a						80-120
CADMIUM	0.010	0.009697	97					80-120
ANTIMONY	0	0.001206						(-.002 to .002)
BARIUM	0	0.000593						(-.005 to .005)
THALLIUM	0	-0.000031						(-.001 to .001)
LEAD	0	0.001071						(-.002 to .002)

(1) The following qualifiers are used: * : Value outside of acceptable limits

Comments:
NOTE:

2214

EVALUATION OF INORGANIC DUPLICATE ANALYSIS PRECISION

Precision Objectives		Compound >or=5xCRQL/MDL	Compound <5xCRQL
	Aqueous	RPD<or=30%	Difference < or =CRQL/MDL
	Solid	RPD<or=50%	Difference < or =2xCRQL/MDL
	Air	RPD<or=20%	Difference < or =CRQL/MDL

Sample ID:	03MW03SI		DUP-02				
Laboratory ID:							
Sample Date:	03/17/08		03/17/08				
Duplicate:	DUP-02		03MW03SI				
	RESULT	QUAL	RESULT	QUAL	RPD	CRQL/MDL	NOTES
TOTAL METALS	mg/~~Kg~~ L		mg/~~Kg~~ L				
Aluminum	0.08	U	0.08	U	0.0	0.08	1, IN
Antimony	0.002	U	0.00008	J	nc	0.002	2, IN
Arsenic	0.006	U	0.0005	J	nc	0.006	2, IN
Barium	0.353		0.362		-2.5	0.006	1, IN
Beryllium	0.001	U	0.001	U	0.0	0.001	1, IN
Cadmium	0.001	U	0.001	U	0.0	0.001	1, IN
Calcium	25.9		25.6		1.2	0.11	1, IN
Chromium	0.0018	J	0.0014	J	nc	0.002	2, IN
Cobalt	0.006	U	0.006	U	0.0	0.006	1, IN
Copper	0.006	U	0.006	U	0.0	0.006	1, IN
Iron	0.07	U	0.07	U	0.0	0.07	1, IN
Lead	0.002	U	0.002	U	0.0	0.002	1, IN
Magnesium	9.96		9.86		1.0	0.11	1, IN
Manganese	0.006	U	0.006	U	0.0	0.006	1, IN
Mercury	0.00003	J	0.0005	U	nc	0.0005	1, IN
Nickel	0.0009	J	0.0008	J	nc	0.006	2, IN
Potassium	0.67		0.67		nc	0.56	2, IN
Selenium	0.002	J	0.002	J	nc	0.006	2, IN
Silver	0.0006	J	0.0007	J	nc	0.001	2, IN
Sodium	9.3		9.47		-1.8	0.56	1, IN
Thallium	0.001	U	0.001	U	0.0	0.001	1, IN
Vanadium	0.0015		0.0015		nc	0.001	2, IN
Zinc	0.006	U	0.006	U	0.0	0.006	1, IN
DISSOLVED METALS	mg/~~Kg~~ L		mg/~~Kg~~ L				
Aluminum	0.08	U	0.08	U	0.0	0.08	1, IN
Antimony	0.0016	J	0.0008	J	nc	0.002	2, IN
Arsenic	0.0005	J	0.0004	J	nc	0.006	2, IN
Barium	0.344		0.351		-2.0	0.006	1, IN
Beryllium	0.001	U	0.001	U	0.0	0.001	1, IN
Cadmium	0.001	U	0.001	U	0.0	0.001	1, IN
Calcium	28.3		29		-2.4	0.11	1, IN
Chromium	0.0027		0.0026		nc	0.002	2, IN
Cobalt	0.005	U	0.005	U	0.0	0.005	1, IN
Copper	0.005	U	0.005	U	0.0	0.005	1, IN
Iron	0.06	U	0.06	U	0.0	0.06	1, IN
Lead	0.002	U	0.002	U	0.0	0.002	1, IN
Magnesium	10.2		10.1		1.0	0.11	1, IN
Manganese	0.004	U	0.004	U	0.0	0.004	1, IN
Mercury	0.0005	U	0.0005	U	0.0	0.0005	1, IN
Nickel	0.0007	J	0.0005	J	nc	0.006	2, IN
Potassium	0.77		0.76		nc	0.56	2, IN
Selenium	0.002	J	0.002	J	nc	0.006	2, IN
Silver	0.001	UR	0.001	UR	0.0	0.001	1, IN
Sodium	9.77		9.9		-1.3	0.56	1, IN
Thallium	0.001	U	0.001	U	0.0	0.001	1, IN
Vanadium	0.0017		0.0017		nc	0.001	2, IN
Zinc	0.005	U	0.005	U	0.0	0.005	1, IN

NOTES

1 - When both results are > or = 5xCRQL/MDL, the acceptance limit is the relative percent difference must be < or = 30% for aqueous and air samples and must be < 50% for solid samples.

2 - When at least one of the results is < 5x CRQL/MDL, the acceptance limit is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

Q - The qualifier is entered to indicate if the anlayte was not detected or qualitatively questionable in the sample.

U - the compound was not detected in the sample at or above the associated numerical value.

NC - The RPD was not calculated because one of the results was not detected; the acceptance limit used is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

J - The positive results should be considered estimated.

B - The result should be considered non-detected or qualitatively questionable due to blank contamination.

IN - The results are acceptable.

EVALUATION OF INORGANIC DUPLICATE ANALYSIS PRECISION

Precision Objectives		Compound >or=5xCRQL/MDL	Compound <5xCRQL
	Aqueous	RPD<or=30%	Difference < or =CRQL/MDL
	Solid	RPD<or=50%	Difference < or =2xCRQL/MDL
	Air	RPD<or=20%	Difference < or =CRQL/MDL

Sample ID:	03IW01		DUP-03				
Laboratory ID:							
Sample Date:	03/19/08		03/19/08				
Duplicate:	DUP-03		03IW01				
	RESULT	QUAL	RESULT	QUAL	RPD	CRQL/MDL	NOTES
TOTAL METALS	mg/Kg	L	mg/Kg	L			
Aluminum	0.08	U	0.08	U	0.0	0.08	1, IN
Antimony	0.002	U	0.002	U	0.0	0.002	1, IN
Arsenic	0.006	U	0.006	U	0.0	0.006	1, IN
Barium	0.59		0.589		0.2	0.006	1, IN
Beryllium	0.001	U	0.001	U	0.0	0.001	1, IN
Cadmium	0.001	U	0.001	U	0.0	0.001	1, IN
Calcium	48.6		47.7		1.9	0.11	1, IN
Chromium	0.0013	J	0.0014	J	nc	0.002	2, IN
Cobalt	0.006	U	0.006	U	0.0	0.006	1, IN
Copper	0.006	U	0.0006	J	nc	0.006	2, IN
Iron	0.07	U	0.07	U	0.0	0.07	1, IN
Lead	0.002	U	0.002	U	0.0	0.002	1, IN
Magnesium	18.5		18.1		2.2	0.11	1, IN
Manganese	0.006	U	0.006	U	0.0	0.006	1, IN
Mercury	0.0005	U	0.0005	U	0.0	0.0005	1, IN
Nickel	0.0019	J	0.0019	J	nc	0.006	2, IN
Potassium	1.05		1.02		nc	0.56	2, IN
Selenium	0.002	J	0.002	J	nc	0.006	2, IN
Silver	0.0006	J	0.0006	J	nc	0.001	2, IN
Sodium	15		14.8		1.3	0.56	1, IN
Thallium	0.001	U	0.001	U	0.0	0.001	1, IN
Vanadium	0.0014		0.0015		nc	0.001	2, IN
Zinc	0.006	U	0.006	U	0.0	0.006	1, IN
DISSOLVED METALS	mg/Kg	L	mg/Kg	L			
Aluminum	0.08	U	0.08	U	0.0	0.08	1, IN
Antimony	0.0004	J	0.0004	J	nc	0.002	2, IN
Arsenic	0.0005	J	0.0002	J	nc	0.006	2, IN
Barium	0.52		0.473		9.5	0.006	1, IN
Beryllium	0.001	U	0.001	U	0.0	0.001	1, IN
Cadmium	0.001	U	0.001	U	0.0	0.001	1, IN
Calcium	53.7		50.1		6.9	0.11	1, IN
Chromium	0.0031	J	0.0027		nc	0.002	2, IN
Cobalt	0.005	U	0.0002	J	nc	0.005	2, IN
Copper	0.005	U	0.005	U	0.0	0.005	1, IN
Iron	0.06	U	0.06	U	0.0	0.06	1, IN
Lead	0.002	U	0.002	U	0.0	0.002	1, IN
Magnesium	19.2		17.8		7.6	0.11	1, IN
Manganese	0.004	U	0.0007	J	nc	0.004	2, IN
Mercury	0.0005	U	0.0005	U	0.0	0.0005	1, IN
Nickel	0.0008	J	0.0009	J	nc	0.006	2, IN
Potassium	1.07		0.96		nc	0.56	2, IN
Selenium	0.002	J	0.001	J	nc	0.006	2, IN
Silver	0.001	UR	0.001	UR	0.0	0.001	1, IN
Sodium	16.8		15.6		7.4	0.56	1, IN
Thallium	0.001	U	0.001	U	0.0	0.001	1, IN
Vanadium	0.0015		0.0013		nc	0.001	2, IN
Zinc	0.005	U	0.005	U	0.0	0.005	1, IN

NOTES

1 - When both results are > or = 5xCRQL/MDL, the acceptance limit is the relative percent difference must be < or = 30% for aqueous and air samples and must be < 50% for solid samples.

2 - When at least one of the results is < 5x CRQL/MDL, the acceptance limit is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

Q - The qualifier is entered to indicate if the anlayte was not detected or qualitatively questionable in the sample.

U - the compound was not detected in the sample at or above the associated numerical value.

NC - The RPD was not calculated because one of the results was not detected; the acceptance limit used is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

J - The positive results should be considered estimated.

B - The result should be considered non-detected or qualitatively questionable due to blank contamination.

IN - The results are acceptable.