

Barker, Michelle C LRB

From: John Mitchell [jimitche@gw.dec.state.ny.us]
Sent: Thursday, October 17, 2002 10:36 AM
To: Rhodes, Michelle C
Subject: NFSS Groundwater split sample results
Attachments: 0208L591s.pdf

Michelle attached are our split sample results from groundwater collected on August 26 -27, 2002. Sample number RN902-0804W-082802 corresponds to well OW04B and sample number RN902-0804W-082803 is well 302A.

John Mitchell



EBS-OR-17721

October 2, 2002

Ms. Judy Stone
Lionville Laboratory, Inc.
208 Welsh Pool Road
Lionville, PA 19341-1313

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CASE NARRATIVE
Work Order # 02-08096-OR

SAMPLE RECEIPT

This work order contains three water samples received 08/29/02. All samples were analyzed as dissolved and suspended for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy. Dissolved samples were analyzed for Gross Alpha/Beta and Radium-226/228. Suspended samples were analyzed for Total Suspended Solids.

<u>CLIENT ID</u>	<u>LAB ID</u>
RN9020804W082801 D	02-08096-04
RN9020804W082801 S	02-08096-05
RN9020804W082802 D	02-08096-06
RN9020804W082802 S	02-08096-07
RN9020804W082803 D	02-08096-08
RN9020804W082803 S	02-08096-09

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 modified. Isotopic Thorium was analyzed using Method EML Th-01 modified. Radium-226 was analyzed using EPA Method 903.0 modified. Radium-228 was analyzed using EPA Method 904.0 modified. Gross Alpha/Beta was performed by gas-flow proportional counting using EPA Method 900.0 modified. Gamma Spectroscopy was performed using EPA Method 901.1 modified. Total Suspended Solids were performed using ASTM Method 2540D.

ANALYTICAL RESULTS

ISOTOPIC URANIUM

Uranium samples were prepared by chemical digestion and ion exchange separation. The samples were mounted by micro-precipitation onto a micro-porous filter. The sample activities were then counted by semiconductor alpha spectroscopy.

Samples demonstrated non-detect equivalent to slightly positive results for Uranium-234, Uranium-235 and Uranium-238 activity. The chemical recovery was acceptable for all samples. Results for the Uranium-234, Uranium-235 and Uranium-238 blanks demonstrated background equivalent activity.

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM CONTINUED

Results for the Uranium-234, Uranium-235 and Uranium-238 replicates demonstrated acceptable relative percent differences and normalized differences. Results for the Uranium-234, Uranium-235 and Uranium-238 laboratory control samples demonstrated acceptable percent recoveries and normalized differences.

ISOTOPIC THORIUM

Thorium samples were prepared by chemical digestion and ion exchange separation. The samples were mounted by micro-precipitation onto a micro-porous filter. The samples were then counted by semiconductor alpha spectroscopy.

Samples demonstrated near background equivalent results for Thorium-228, Thorium-230 and Thorium-232 activity. The chemical recovery was acceptable for all samples. Results for the Thorium-228, Thorium-230 and Thorium-232 blanks demonstrated background equivalent activity. Results for the Thorium-228, Thorium-230 and Thorium-232 replicates demonstrated high relative percent differences; however, the normalized differences were acceptable. Results for the Thorium-228 and Thorium-230 laboratory control samples demonstrated acceptable percent recoveries and normalized differences. Results for the Thorium-232 laboratory control sample demonstrated a slightly low percent recovery; however, the normalized difference was acceptable.

RADIUM-226

Radium samples were prepared by chemical digestion and selective sulphate precipitation of the Radium. Samples were mounted by micro-precipitation onto a micro-porous filter. The energy specific alphas from the samples were counted using semi-conductor detectors.

Samples demonstrated background equivalent results for Radium-226 activity. The chemical recovery was acceptable for all samples. Results for the Radium-226 blank demonstrated background equivalent activity. Results for the Radium-226 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Radium-226 laboratory control sample demonstrated an acceptable percent recovery and normalized difference.

RADIUM-228

Radium-228 samples were prepared by chemical digestion and selective sulphate precipitation of the Radium fraction. The precipitate is redissolved and the Actinium daughter selectively precipitated. The precipitate is filtered and beta emissions counted by a gas proportional counter.

Samples demonstrated near background equivalent results for Radium-228 activity. The chemical recovery was acceptable for all samples. Results for the Radium-228 blank demonstrated background equivalent activity. Results for the Radium-228 replicate demonstrated a slightly high relative percent difference; however, the normalized difference was acceptable. Results for the Radium-228 laboratory control sample demonstrated an acceptable percent recovery and normalized difference.

ANALYTICAL RESULTS CONTINUED

GROSS ALPHA/BETA

Gross Alpha/Beta samples for water were prepared by evaporation of an acidified aliquot of the sample and transfer of the reduced sample to a steel planchet for final evaporation to dryness. The samples were then counted by use of a gas proportional counter.

Samples demonstrated slightly positive results for Gross Alpha activity, and non-detect equivalent to slightly positive Gross Beta activity. Samples demonstrated slightly high detection limits; however, this was due to the use of small sample aliquots due to the TDS content within these samples. Results for the Gross Alpha and Gross Beta blanks demonstrated background equivalent activity. Results for the Gross Alpha and Gross Beta replicates demonstrated high relative percent differences; however, the normalized differences were acceptable. Results for the Gross Alpha laboratory control sample demonstrated a slightly high normalized difference; however, the percent recovery was acceptable. Results for the Gross Beta laboratory control sample demonstrated an acceptable percent recovery and normalized difference.

GAMMA SPECTRAL ANALYSIS

Gamma Spectroscopy samples were prepared by transferring a measured aliquot of the sample to a standard geometry container. The samples were counted on a High Purity Germanium (HPGe) gamma ray detector.

Samples demonstrated non-detect equivalent results for gamma-emitting radionuclides as reported. Results for the blank demonstrated non-detect equivalent activity for gamma-emitting radionuclides as reported. Results for the Cobalt-60, Cesium-137 and Zirconium-95 replicates demonstrated high relative percent differences; however, the normalized differences were acceptable. Results for the Cobalt-60 and Cesium-137 laboratory control samples demonstrated acceptable percent recoveries and normalized differences.

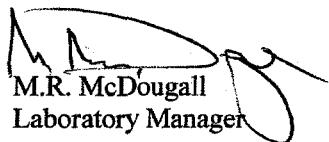
TOTAL SUSPENDED SOLIDS

Samples were aliquoted, filtered, and dried on a hot plate. Following drying, they were cooled and the Total Suspended Solids were determined by gravimetric analysis.

Sample results demonstrated Total Suspended Solids that ranged from 2.4 mg/L to 12.8 mg/L.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.



M.R. McDougall
Laboratory Manager

Date: 10/2/2002

Eberline Services Final Report of Analysis		Report To:					Work Order Details:						
		Judy Stone Lionville Laboratory, Inc. 208 Welsh Pool Road Lionville, PA 19341-1313					SDG:	02-08096					
							Purchase Order:	1002					
							Analysis Category:	ENVIRONMENTAL					
							Sample Matrix:	WA					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	TPU	MDA	Report Units
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	3.58E+02	1.54E+01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	4.01E+02	3.05E+00	2.76E+01	1.83E-01	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	1.39E+00	4.39E+00	4.39E+00	4.68E+00	pCi/l
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	4.19E+01	1.14E+01	1.18E+01	7.53E+00	pCi/l
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	2.30E+01	1.34E+01	1.35E+01	1.26E+01	pCi/l
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	4.75E+01	6.79E+00	7.53E+00	4.12E+00	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/5/2002	02-08096	Gross Alpha	EPA 900.0 Modified	1.29E+02	4.02E+01	4.12E+01	3.38E+01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	3.21E+02	9.84E+00			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	3.44E+02	2.47E+00	1.62E+01	3.72E-01	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	8.10E+00	1.25E+01	1.25E+01	1.22E+01	pCi/l
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	1.19E+01	1.82E+01	1.82E+01	1.79E+01	pCi/l
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	1.80E+01	1.75E+01	1.75E+01	1.71E+01	pCi/l
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	1.09E+01	5.33E+00	5.35E+00	5.10E+00	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/5/2002	02-08096	Gross Beta	EPA 900.0 Modified	-2.22E+01	4.30E+01	4.30E+01	4.31E+01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	8.97E+00	4.12E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	8.35E+00	1.04E+00	1.11E+00	4.99E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	-4.56E-03	6.46E-03	6.46E-03	1.04E-01	pCi/l
02-08096-03	DUP	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	6.03E-02	7.52E-02	7.52E-02	1.17E-01	pCi/l
02-08096-04	TRG	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	1.77E-01	2.09E-01	2.09E-01	2.78E-01	pCi/l
02-08096-06	DO	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	6.29E-02	7.81E-02	7.82E-02	1.22E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/19/2002	02-08096	Radium-226	EPA 903.0 Modified	8.37E-02	1.28E-01	1.28E-01	2.72E-01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.82E+01	8.17E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.52E+01	1.44E+00	3.08E+00	1.29E+00	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.26E+00	7.26E-01	7.60E-01	1.14E+00	pCi/l
02-08096-03	DUP	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	9.82E-01	6.63E-01	6.76E-01	1.04E+00	pCi/l
02-08096-04	TRG	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.86E+00	9.32E-01	9.88E-01	1.43E+00	pCi/l
02-08096-06	DO	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.24E+00	8.15E-01	8.44E-01	1.30E+00	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/26/2002	02-08096	Radium-228	EPA 904.0 Modified	1.03E+00	7.91E-01	8.12E-01	1.29E+00	pCi/l

CU=Counting Uncertainty; TPU=Total Propagated Uncertainty; MDA=Minimal Detected Activity; LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original


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Eberline Services Final Report of Analysis			Report To:					Work Order Details					
			Judy Stone					SDG:	02-08096				
			Lionville Laboratory, Inc.					Purchase Order:	1002				
			208 Welsh Pool Road					Analysis Category:	ENVIRONMENTAL				
			Lionville, PA 19341-1313					Sample Matrix:	WA				
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	TPU	MDA	Report Units
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	4.73E+00	1.70E-01			
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	4.16E+00	8.37E-01	8.62E-01	9.45E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	3.53E-02	7.77E-02	7.77E-02	1.75E-01	pCi/l
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	9.68E-03	1.39E-01	1.39E-01	4.36E-01	pCi/l
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	1.21E-01	2.66E-01	2.66E-01	5.76E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	1.65E-01	2.58E-01	2.58E-01	4.88E-01	pCi/l
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	-4.82E-02	4.91E-02	4.91E-02	4.51E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	3.07E-02	3.10E-01	3.10E-01	8.73E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	8.84E-03	1.26E-01	1.26E-01	4.01E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-228	EML Th-01 Modified	4.04E-01	4.33E-01	4.34E-01	6.85E-01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	5.29E+00	1.43E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	4.36E+00	8.70E-01	8.96E-01	3.46E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	3.55E-01	1.91E-01	1.91E-01	1.30E-01	pCi/l
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	1.20E+00	6.16E-01	6.19E-01	5.47E-01	pCi/l
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	1.81E+00	8.01E-01	8.06E-01	4.28E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	1.01E+00	5.44E-01	5.46E-01	4.67E-01	pCi/l
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	1.95E+00	8.29E-01	8.35E-01	4.51E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	9.60E-01	6.96E-01	6.98E-01	8.10E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	1.94E+00	7.53E-01	7.59E-01	2.65E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-230	EML Th-01 Modified	2.65E+00	1.04E+00	1.05E+00	4.63E-01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	4.73E+00	1.70E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	3.73E+00	7.64E-01	7.85E-01	6.91E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	0.00E+00	0.00E+00	0.00E+00	5.83E-02	pCi/l
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	9.28E-02	1.81E-01	1.81E-01	3.76E-01	pCi/l
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	1.64E-01	2.52E-01	2.52E-01	4.63E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	1.49E-01	2.12E-01	2.12E-01	3.61E-01	pCi/l
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	3.37E-02	1.44E-01	1.44E-01	4.15E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	1.48E-01	2.89E-01	2.89E-01	5.89E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	-2.92E-02	3.41E-02	3.41E-02	3.45E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	8/24/2002	02-08096	Thorium-232	EML Th-01 Modified	7.01E-01	5.06E-01	5.07E-01	5.36E-01	pCi/l

CU=Counting Uncertainty; TPU=Total Propagated Uncertainty; MDA=Minimal Detected Activity; LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original


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Eberline Services Final Report of Analysis		Report To:					Work Order Details:						
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							Purchase Order:	1002					
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Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	TPU	MDA	Report Units
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	7.93E+00	2.85E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	8.01E+00	1.48E+00	1.56E+00	7.00E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	6.04E-02	5.90E-02	5.92E-02	7.02E-02	pCi/l
02-08096-03	DUP	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	1.87E+01	3.54E+00	3.74E+00	2.16E-01	pCi/l
02-08096-04	TRG	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	1.53E+01	3.05E+00	3.21E+00	2.33E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	2.21E-01	2.01E-01	2.01E-01	1.20E-01	pCi/l
02-08096-06	DO	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	1.78E+01	3.38E+00	3.57E+00	1.26E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	1.42E-01	2.03E-01	2.03E-01	1.03E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	5.16E+01	9.08E+00	9.67E+00	1.42E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-234	EML U-02 Modified	2.35E-01	2.14E-01	2.14E-01	1.28E-01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	3.60E-01	1.30E-02			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	3.74E-01	1.78E-01	1.79E-01	5.06E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	0.00E+00	0.00E+00	0.00E+00	4.33E-02	pCi/l
02-08096-03	DUP	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	8.08E-01	4.51E-01	4.54E-01	1.56E-01	pCi/l
02-08096-04	TRG	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	4.86E-01	3.61E-01	3.62E-01	2.87E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	0.00E+00	0.00E+00	0.00E+00	1.48E-01	pCi/l
02-08096-06	DO	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	7.97E-01	4.45E-01	4.48E-01	1.54E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	8.77E-02	1.76E-01	1.76E-01	2.38E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	2.07E+00	8.08E-01	8.19E-01	1.76E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-235	EML U-02 Modified	1.74E-01	2.03E-01	2.03E-01	1.57E-01	pCi/l
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	7.73E+00	2.78E-01			pCi/l
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	8.08E+00	1.49E+00	1.58E+00	6.97E-02	pCi/l
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	3.65E-02	4.53E-02	4.53E-02	5.97E-02	pCi/l
02-08096-03	DUP	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	1.66E+01	3.19E+00	3.36E+00	1.26E-01	pCi/l
02-08096-04	TRG	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	1.28E+01	2.63E+00	2.76E+00	2.32E-01	pCi/l
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	1.25E-01	1.55E-01	1.55E-01	2.04E-01	pCi/l
02-08096-06	DO	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	1.82E+01	3.43E+00	3.63E+00	2.13E-01	pCi/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	5.88E-02	1.44E-01	1.44E-01	3.28E-01	pCi/l
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	4.01E+01	7.18E+00	7.64E+00	1.42E-01	pCi/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/24/2002	02-08096	Uranium-238	EML U-02 Modified	1.71E-01	1.91E-01	1.91E-01	2.54E-01	pCi/l

CU=Counting Uncertainty; TPU=Total Propagated Uncertainty; MDA=Minimal Detected Activity; LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original


EBERLINE
SERVICES

Oak Ridge Laboratory

601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

Eberline Services Final Report of Analysis		Report To:				Work Order Details:							
		Judy Stone Lionville Laboratory, Inc. 208 Welsh Pool Road Lionville, PA 19341-1313				SDG: 02-08096							
						Purchase Order: 1002							
						Analysis Category: ENVIRONMENTAL							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	TPU	MDA	Report Units
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cobalt-60	EPA 901.1 Modified	2.00E+02	9.08E+00			pCi/ml
02-08096-01	LCS	KNOWN	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cesium-137	EPA 901.1 Modified	1.19E+02	5.61E+00			pCi/ml
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cobalt-60	EPA 901.1 Modified	1.98E+02	1.41E+01	1.45E+01	8.65E-01	pCi/ml
02-08096-01	LCS	SPIKE	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cesium-137	EPA 901.1 Modified	1.24E+02	1.65E+01	1.67E+01	6.72E-01	pCi/ml
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cobalt-60	EPA 901.1 Modified	5.64E-03	6.19E-03	6.19E-03	1.19E-02	pCi/ml
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Cesium-137	EPA 901.1 Modified	9.90E-04	5.98E-03	5.98E-03	1.06E-02	pCi/ml
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	1.51E-02	4.94E-02	4.94E-02	8.84E-02	pCi/ml
02-08096-02	MBL	BLANK	08/29/02 00:00	8/29/2002	9/26/2002	02-08096	Zirconium-95	EPA 901.1 Modified	4.58E-03	9.90E-03	9.90E-03	1.80E-02	pCi/ml
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/23/2002	02-08096	Cobalt-60	EPA 901.1 Modified	6.01E-03	6.64E-03	6.64E-03	1.27E-02	pCi/ml
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/23/2002	02-08096	Cesium-137	EPA 901.1 Modified	4.95E-03	5.93E-03	5.93E-03	1.09E-02	pCi/ml
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/23/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	-1.58E-02	5.72E-02	5.72E-02	9.86E-02	pCi/ml
02-08096-03	DUP	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/23/2002	02-08096	Zirconium-95	EPA 901.1 Modified	9.26E-04	1.52E-02	1.52E-02	2.69E-02	pCi/ml
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Cobalt-60	EPA 901.1 Modified	2.30E-03	6.57E-03	6.57E-03	1.20E-02	pCi/ml
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Cesium-137	EPA 901.1 Modified	6.70E-03	5.93E-03	5.93E-03	1.11E-02	pCi/ml
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	2.79E-02	5.48E-02	5.48E-02	9.90E-02	pCi/ml
02-08096-04	DO	RN9020804W082801 D	08/16/02 11:10	8/29/2002	9/24/2002	02-08096	Zirconium-95	EPA 901.1 Modified	3.03E-03	1.57E-02	1.57E-02	2.80E-02	pCi/ml
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/26/2002	02-08096	Cobalt-60	EPA 901.1 Modified	-5.44E-04	1.56E-03	1.56E-03	2.62E-03	pCi/ml
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/26/2002	02-08096	Cesium-137	EPA 901.1 Modified	1.42E-04	1.40E-03	1.40E-03	2.45E-03	pCi/ml
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/26/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	1.77E-03	1.39E-02	1.39E-02	2.42E-02	pCi/ml
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/26/2002	02-08096	Zirconium-95	EPA 901.1 Modified	1.44E-03	3.41E-03	3.41E-03	6.09E-03	pCi/ml
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/25/2002	02-08096	Cobalt-60	EPA 901.1 Modified	1.84E-04	3.93E-03	3.93E-03	6.71E-03	pCi/ml
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/25/2002	02-08096	Cesium-137	EPA 901.1 Modified	2.66E-04	3.93E-03	3.93E-03	6.75E-03	pCi/ml
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/25/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	-4.52E-04	3.48E-02	3.48E-02	5.95E-02	pCi/ml
02-08096-06	TRG	RN9020804W082802 D	08/26/02 14:15	8/29/2002	9/25/2002	02-08096	Zirconium-95	EPA 901.1 Modified	2.98E-04	9.40E-03	9.40E-03	1.44E-02	pCi/ml

CU=Counting Uncertainty; TPU=Total Propagated Uncertainty; MDA=Minimal Detected Activity; LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original



Oak Ridge Laboratory

601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

Report To:							Work Order Details:						
Judy Stone Lionville Laboratory, Inc. 208 Welsh Pool Road Lionville, PA 19341-1313							SDG:	02-08096					
							Purchase Order:	1002					
							Analysis Category:	ENVIRONMENTAL					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	TPU	MDA	Report Units
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/17/2002	02-08096	Cobalt-60	EPA 901.1 Modified	-1.39E-04	1.77E-03	1.77E-03	2.83E-03	pCi/ml
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/17/2002	02-08096	Cesium-137	EPA 901.1 Modified	1.89E-04	1.47E-03	1.47E-03	2.54E-03	pCi/ml
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/17/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	5.56E-03	1.41E-02	1.41E-02	2.46E-02	pCi/ml
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/17/2002	02-08096	Zirconium-95	EPA 901.1 Modified	-3.63E-04	2.93E-03	2.93E-03	4.98E-03	pCi/ml
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/25/2002	02-08096	Cobalt-60	EPA 901.1 Modified	-1.97E-05	4.50E-03	4.50E-03	7.42E-03	pCi/ml
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/25/2002	02-08096	Cesium-137	EPA 901.1 Modified	1.40E-03	4.32E-03	4.32E-03	7.63E-03	pCi/ml
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/25/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	2.07E-02	3.92E-02	3.92E-02	6.98E-02	pCi/ml
02-08096-08	TRG	RN9020804W082803 D	08/27/02 10:10	8/29/2002	9/25/2002	02-08096	Zirconium-95	EPA 901.1 Modified	3.19E-03	9.31E-03	9.31E-03	1.65E-02	pCi/ml
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/26/2002	02-08096	Cobalt-60	EPA 901.1 Modified	3.34E-04	1.52E-03	1.52E-03	2.64E-03	pCi/ml
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/26/2002	02-08096	Cesium-137	EPA 901.1 Modified	9.89E-04	1.44E-03	1.44E-03	2.46E-03	pCi/ml
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/26/2002	02-08096	Ruthenium-106	EPA 901.1 Modified	-2.43E-03	1.44E-02	1.44E-02	2.44E-02	pCi/ml
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/26/2002	02-08096	Zirconium-95	EPA 901.1 Modified	5.97E-04	3.02E-03	3.02E-03	5.25E-03	pCi/ml
02-08096-05	TRG	RN9020804W082801 S	08/16/02 11:10	8/29/2002	9/5/2002	02-08096	TSS	ASTM 2540D	4.60E+00				mg/l
02-08096-07	TRG	RN9020804W082802 S	08/26/02 14:15	8/29/2002	9/5/2002	02-08096	TSS	ASTM 2540D	2.40E+00				mg/l
02-08096-09	TRG	RN9020804W082803 S	08/27/02 10:10	8/29/2002	9/5/2002	02-08096	TSS	ASTM 2540D	1.28E+01				mg/l

CU=Counting Uncertainty; TPU=Total Propagated Uncertainty; MDA=Minimal Detected Activity; LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original



Oak Ridge Laboratory

601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

02 08 09 6-45



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|-------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> 2. 13PP Metals | <input type="checkbox"/> 3. Volatiles—(USEPA 624 GC/MS) | <input type="checkbox"/> 6. Pesticides/PCBs (USEPA 608-GC) |
| <input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 624 GC/MS) | <input type="checkbox"/> 5. Cyanide | <input type="checkbox"/> 9. BOD |
| <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601 GC) | <input type="checkbox"/> 8. Aromatic Volatiles USEPA 602 GC) | <input type="checkbox"/> 12. TSS |
| <input type="checkbox"/> 10. pH | <input type="checkbox"/> 11. COD | <input type="checkbox"/> 15. Ammonia |
| <input type="checkbox"/> 13. Settleable Solids | <input type="checkbox"/> 14. TKN | <input type="checkbox"/> 18. Reactive Phosphorus |
| <input type="checkbox"/> 16. Nitrate/Nitrite | <input type="checkbox"/> 17. Total Phosphorus | <input type="checkbox"/> 21. Total Phenols |
| <input type="checkbox"/> 19. Oil/Grease) | <input type="checkbox"/> 20. TOC | <input type="checkbox"/> 60. PCBs congener method (ASP 91-11) |
| <input type="checkbox"/> 22. Other _____ | <input type="checkbox"/> 59. PCBs at 0.065 ug/l | <input type="checkbox"/> 64. Total Solids |
| | <input type="checkbox"/> 62. CBOD | <input type="checkbox"/> 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> 23 (ALL)—Water—Includes 24-28 | <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34 |
| <input type="checkbox"/> 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | <input type="checkbox"/> 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| <input type="checkbox"/> 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | <input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| <input type="checkbox"/> 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | <input type="checkbox"/> 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| <input type="checkbox"/> 27 Metals—23 in Water | <input type="checkbox"/> 33. Metals—23 in Soil/Sediments) |
| <input type="checkbox"/> 28 Cyanide—Water | <input type="checkbox"/> 34. Cyanide—Soil/Sediments) |
| <input type="checkbox"/> 66 Dioxin-Water (ASP #91-7) | <input type="checkbox"/> 67. Dioxin—Soil/Sediments (ASP #91-7) |
| <input type="checkbox"/> 35 Other _____ | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> 36. EP Toxicity | <input type="checkbox"/> 37. EP Toxicity (Metals Only) | <input type="checkbox"/> 38. Ignitability |
| <input type="checkbox"/> 39. Corrosivity | <input type="checkbox"/> 40. VOA—(USEPA 8260 GC/MS) | <input type="checkbox"/> 41. BNA—(USEPA 8270 GC/MS) |
| <input type="checkbox"/> 42. Pesticides/PCBs (USEPA 8081) | <input type="checkbox"/> 43. TCLP | <input type="checkbox"/> 44. TCLP (Metals Only) |
| <input type="checkbox"/> 45. Reactivity | <input type="checkbox"/> 46. Dioxin (USEPA 8280) | <input type="checkbox"/> 47. Appendix IX |
| <input checked="" type="checkbox"/> 48. Other <i>See Attached Letter</i> | <input type="checkbox"/> 63 Percent Solids | <input type="checkbox"/> 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

56. RS-01 57. RS-02 58. Other _____

COLLECTED BY: <i>SAIC for John Mitchell</i>	TELEPHONE NUMBER: <i>(518) 402 8573</i>	REGION NO.: <i>0</i>	
CONTRACT LABORATORY: <i>Eberline Services Environmental Lab</i>	COUNTY: <i>Erie</i>	SAMPLING DATE: <i>8/16/02</i>	MILITARY TIME: <i>11:10</i>

SAMPLE MATRIX:

- Air Soil/Sediment Groundwater Surface Water Wastewater Other

CASE NO. <i>RIM91012018011</i>	SDG NO. <i>W01812181011</i>	SAMPLE NO.	CHECK FOR MS/MD <input type="checkbox"/> This sample	TYPE OF SAMPLE <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hours
-----------------------------------	--------------------------------	------------	---------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

Check if there will be more samples with this SDG sent in this calendar week.

Report via Category B, unless checked

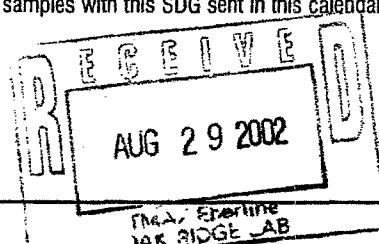
SAMPLING POINT:

Check if field duplicate Outfall Number

Check if sampling is part of inspection

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER



SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

V-5 08 09 6-47



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|-------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> 2. 13PP Metals | <input type="checkbox"/> 3. Volatiles—(USEPA 624 GC/MS) | <input type="checkbox"/> 6. Pesticides/PCBs (USEPA 608-GC) |
| <input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 624 GC/MS) | <input type="checkbox"/> 5. Cyanide | <input type="checkbox"/> 9. BOD |
| <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601 GC) | <input type="checkbox"/> 8. Aromatic Volatiles USEPA 602 GC | <input type="checkbox"/> 12. TSS |
| <input type="checkbox"/> 10. pH | <input type="checkbox"/> 11. COD | <input type="checkbox"/> 15. Ammonia |
| <input type="checkbox"/> 13. Settleable Solids | <input type="checkbox"/> 14. TKN | <input type="checkbox"/> 18. Reactive Phosphorus |
| <input type="checkbox"/> 16. Nitrate/Nitrite | <input type="checkbox"/> 17. Total Phosphorus | <input type="checkbox"/> 21. Total Phenols |
| <input type="checkbox"/> 19. Oil/Grease | <input type="checkbox"/> 20. TOC | <input type="checkbox"/> 60. PCBs congener method (ASP 91-11) |
| <input type="checkbox"/> 22. Other _____ | <input type="checkbox"/> 59. PCBs at 0.065 ug/l | <input type="checkbox"/> 64. Total Solids |
| | <input type="checkbox"/> 62. CBOD | <input type="checkbox"/> 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> 23 (ALL)—Water—Includes 24-28 | <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34 |
| <input type="checkbox"/> 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | <input type="checkbox"/> 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| <input type="checkbox"/> 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | <input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| <input type="checkbox"/> 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | <input type="checkbox"/> 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| <input type="checkbox"/> 27 Metals—23 in Water | <input type="checkbox"/> 33. Metals—23 in Soil/Sediments |
| <input type="checkbox"/> 28 Cyanide—Water | <input type="checkbox"/> 34. Cyanide—Soil/Sediments |
| <input type="checkbox"/> 66 Dioxin-Water (ASP #91-7) | <input type="checkbox"/> 67. Dioxin—Soil/Sediments (ASP #91-7) |
| <input type="checkbox"/> 35 Other _____ | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> 36. EP Toxicity | <input type="checkbox"/> 37. EP Toxicity (Metals Only) | <input type="checkbox"/> 38. Ignitability |
| <input type="checkbox"/> 39. Corrosivity | <input type="checkbox"/> 40. VOA—(USEPA 8260 GC/MS) | <input type="checkbox"/> 41. BNA—(USEPA 8270 GC/MS) |
| <input type="checkbox"/> 42. Pesticides/PCBs (USEPA 8081) | <input type="checkbox"/> 43. TCLP | <input type="checkbox"/> 44. TCLP (Metals Only) |
| <input type="checkbox"/> 45. Reactivity | <input type="checkbox"/> 46. Dioxin (USEPA 8280) | <input type="checkbox"/> 47. Appendix IX |
| <input checked="" type="checkbox"/> 48. Other <i>See Attached Letter</i> | <input type="checkbox"/> 63 Percent Solids | <input type="checkbox"/> 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

56. RS-01 57. RS-02 58. Other

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO.:
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CONTRACT LABORATORY:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
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SAMPLE MATRIX:			
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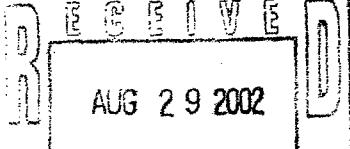
<input type="checkbox"/> Air	<input type="checkbox"/> Soil/Sediment	<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Surface Water	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Other _____
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CASE NO.	SDG NO.	SAMPLE NO.	CHECK FOR MS/MD	TYPE OF SAMPLE
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RIN1910-2	01 8014W01812181012	<input type="checkbox"/> This sample	<input type="checkbox"/> Grab	<input type="checkbox"/> Composite	<input type="checkbox"/> Term _____ hours
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<input type="checkbox"/> Check if there will be more samples with this SDG sent in this calendar week.	Report via Category B, unless checked <input type="checkbox"/>
--------------------------------------------------------------------------------------------------------	----------------------------------------------------------------

SAMPLING POINT:	Check if field duplicate <input type="checkbox"/>	Outfall Number _____
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	Check if sampling is part of inspection <input type="checkbox"/>
-------------------------------------------------------------------------------------	------------------------------------------------------------------

FLOW: _____ GPD	MGD _____
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SPDES NUMBER/REGISTRY NUMBER	
------------------------------	--

PLA, ECRAPINE
JAK RIDGE LAB

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

U8 09 6-819



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|-------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> 2. 13PP Metals | <input type="checkbox"/> 3. Volatiles—(USEPA 624 GC/MS) | <input type="checkbox"/> 6. Pesticides/PCBs (USEPA 608-GC) |
| <input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 624 GC/MS) | <input type="checkbox"/> 5. Cyanide | <input type="checkbox"/> 9. BOD |
| <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601 GC) | <input type="checkbox"/> 8. Aromatic Volatiles USEPA 602 GC) | <input type="checkbox"/> 12. TSS |
| <input type="checkbox"/> 10. pH | <input type="checkbox"/> 11. COD | <input type="checkbox"/> 15. Ammonia |
| <input type="checkbox"/> 13. Settleable Solids | <input type="checkbox"/> 14. TKN | <input type="checkbox"/> 18. Reactive Phosphorus |
| <input type="checkbox"/> 16. Nitrate/Nitrite | <input type="checkbox"/> 17. Total Phosphorus | <input type="checkbox"/> 21. Total Phenols |
| <input type="checkbox"/> 19. Oil/Grease) | <input type="checkbox"/> 20. TOC | <input type="checkbox"/> 60. PCBs congener method (ASP 91-11) |
| <input type="checkbox"/> 22. Other _____ | <input type="checkbox"/> 59. PCBs at 0.065 ug/l | <input type="checkbox"/> 64. Total Solids |
| | <input type="checkbox"/> 62. CBOD | <input type="checkbox"/> 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> 23 (ALL)—Water—Includes 24-28 | <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34 |
| <input type="checkbox"/> 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | <input type="checkbox"/> 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| <input type="checkbox"/> 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | <input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| <input type="checkbox"/> 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | <input type="checkbox"/> 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| <input type="checkbox"/> 27 Metals—23 in Water | <input type="checkbox"/> 33. Metals—23 in Soil/Sediments) |
| <input type="checkbox"/> 28 Cyanide—Water | <input type="checkbox"/> 34. Cyanide—Soil/Sediments) |
| <input type="checkbox"/> 66 Dioxin—Water (ASP #91-7) | <input type="checkbox"/> 67. Dioxin—Soil/Sediments (ASP #91-7) |
| <input type="checkbox"/> 35 Other _____ | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> 36. EP Toxicity | <input type="checkbox"/> 37. EP Toxicity (Metals Only) | <input type="checkbox"/> 38. Ignitability |
| <input type="checkbox"/> 39. Corrosivity | <input type="checkbox"/> 40. VOA—(USEPA 8260 GC/MS) | <input type="checkbox"/> 41. BNA—(USEPA 8270 GC/MS) |
| <input type="checkbox"/> 42. Pesticides/PCBs (USEPA 8081) | <input type="checkbox"/> 43. TCLP | <input type="checkbox"/> 44. TCLP (Metals Only) |
| <input type="checkbox"/> 45. Reactivity | <input type="checkbox"/> 46. Dioxin (USEPA 8280) | <input type="checkbox"/> 47. Appendix IX |
| <input checked="" type="checkbox"/> 48. Other <i>See Attached Letter</i> | <input type="checkbox"/> 63 Percent Solids | <input type="checkbox"/> 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

56. RS-01 57. RS-02 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO.:
<i>John M. Fletcher</i>	(518) 402-8573	0

CONTRACT LABORATORY:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
<i>Eberline Services</i>	<i>Linville Niagara</i>	<i>8/27/02</i>	<i>10:10</i>

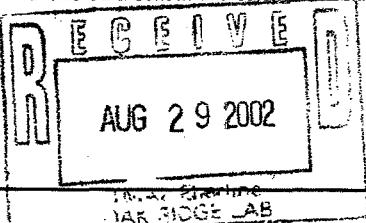
SAMPLE MATRIX:

- Air Soil/Sediment Groundwater Surface Water Wastewater Other

CASE NO.	SDG NO.	SAMPLE NO.	CHECK FOR MS/MD	TYPE OF SAMPLE
<i>K1191012</i>	<i>08104</i>	<i>W01812181013</i>	<input type="checkbox"/> This sample	<input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hours

Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:



Report via Category B, unless checked

Check if field duplicate Outfall Number

Check if sampling is part of inspection

FLOW: _____ GPD MGD

SPDES NUMBER/REGISTRY NUMBER