

UNITED NUCLEAR CORPORATION



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CERTIFIED – RETURN RECEIPT REQUEST

September 02, 2004

Mr. Gary Jonosko
Fuel Cycle Licensing Branch, FCCS
Division of Fuel Safety and Safeguards
Office of Nuclear Material Safety & Safeguards
Mail Stop: T-8A33
US Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Addendum to the First Half of 2004 Semi-Annual Ground Water Compliance Monitoring
Report dated August 18, 2004 - *Docket 40-8907*

Dear Mr. Jonosko:

The addendum to the above report is the attached revised analytical lab report on Well No. 632 (dated August 13, 2004) for the April -2nd Qr. 2004 (SWA) sampling period.

This lab report will supersede the initial June 02, 2004 report.

Sincerely,

A handwritten signature in black ink, appearing to read "Larry Bush", written over the typed name and title.

Larry Bush
Manager

LB:drb

Enclosure

Cc: Division of Radiation Safety, Region VI
Mark Purcell, USEPA
Mark Jancin, US Filter
Roy Blickwedel, GE
Steve Hill, GE
Robin Brown, NMED
Diana Malone, NNEPA

U mssol



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C04040401-009
 Client Sample ID: 632

Revised Date: 08/13/04
 Report Date: 06/02/04
 Collection Date: 04/05/04 15:10
 Date Received: 04/09/04
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Bicarbonate as HCO3	1760	mg/L		1.0		A2320 B	04/13/04 16:52 / slb
Calcium	616	mg/L		1.0		E200.7	04/14/04 12:30 / ts
Chloride	243	mg/L		1.0		E200.7	04/14/04 14:23 / ts
Magnesium	788	mg/L		1.0		E200.7	04/14/04 12:30 / ts
Nitrogen, Ammonia as N	0.67	mg/L		0.05		A4500-NH3 G	04/12/04 11:17 / jal
Nitrogen, Nitrate+Nitrite as N	56.9	mg/L	D	0.60		E353.2	04/14/04 11:23 / jal
Potassium	10.4	mg/L		1.0		E200.7	04/14/04 14:23 / ts
Sodium	364	mg/L		1.0		E200.7	04/14/04 14:23 / ts
Sulfate	3380	mg/L	D	8.0		E200.7	04/14/04 12:30 / ts
PHYSICAL PROPERTIES							
pH	6.63	s.u.		0.01		A4500-H B	04/12/04 11:26 / js
Solids, Total Dissolved TDS @ 180 C	7320	mg/L		10		A2540 C	04/09/04 16:44 / js
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	05/02/04 19:09 / bws
Beryllium	ND	mg/L		0.01		E200.8	05/02/04 19:09 / bws
Cadmium	ND	mg/L		0.005		E200.8	05/02/04 19:09 / bws
Cobalt	ND	mg/L		0.01		E200.8	05/02/04 19:09 / bws
Lead	ND	mg/L		0.05		E200.8	05/02/04 19:09 / bws
Manganese	1.24	mg/L		0.010		E200.7	04/14/04 14:23 / ts
Molybdenum	ND	mg/L		0.1		E200.8	05/02/04 19:09 / bws
Nickel	ND	mg/L		0.05		E200.8	05/02/04 19:09 / bws
Uranium	ND	mg/L	D	0.0008		E200.8	05/02/04 19:09 / bws
Vanadium	ND	mg/L		0.1		E200.8	05/02/04 19:09 / bws
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/13/04 11:51 / sml
Selenium-IV	0.001	mg/L		0.001		A3114 B	04/12/04 16:35 / sml
RADIONUCLIDES - DISSOLVED							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	04/14/04 12:10 / rs
Lead 210	ND	pCi/L		1.0		NERHL-65-4	04/24/04 00:00 / ph
Radium 226	0.5	pCi/L		0.2		E903.0	04/22/04 14:55 / df
Radium 226 precision (±)	0.3	pCi/L				E903.0	04/22/04 14:55 / df
Radium 228	ND	pCi/L		1.0		E904.0	04/29/04 14:03 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	04/21/04 10:30 / ph

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C04040401-009
 Client Sample ID: 632

Revised Date: 08/13/04
 Report Date: 06/02/04
 Collection Date: 04/05/04 15:10
 Date Received: 04/09/04
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
DATA QUALITY							
A/C Balance (± 5)	0.700	%				Calculation	04/30/04 10:12 / smd
Anions	110	meq/L				Calculation	04/30/04 10:12 / smd
Cations	112	meq/L				Calculation	04/30/04 10:12 / smd
Solids, Total Dissolved Calculated	6520	mg/L				Calculation	04/30/04 10:12 / smd
TDS Balance (0.80 - 1.20)	1.12	dec. %				Calculation	04/30/04 10:12 / smd
VOLATILE ORGANIC COMPOUNDS							
Chloroform	2.5	ug/L		1.0		E624	04/13/04 10:44 / rlo
Surr: 1,2-Dichlorobenzene-d4	104	%REC			80-120	E624	04/13/04 10:44 / rlo
Surr: Dibromofluoromethane	104	%REC			70-130	E624	04/13/04 10:44 / rlo
Surr: p-Bromofluorobenzene	95.2	%REC			75-125	E624	04/13/04 10:44 / rlo
Surr: Toluene-d8	95.6	%REC			80-120	E624	04/13/04 10:44 / rlo

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



UNC Mining and Milling ChurchRock Operations				
GroundWater Monitoring Summary: Alluvium Monitor Wells				
Well ID:		632	632	632
Collection Date:		4/5/2004 15:10	1/5/2004 15:05	10/7/2003 12:00
Receive Date:		4/9/2004 10:00	1/9/2004 10:00	10/10/2003 10:00
Report Date:		6/1/2004 17:00	2/20/2004 14:14	11/3/2003 13:42
Analyte:	Units:	W04040401-009	W04010262-008	W03100451-012
Bicarbonate as HCO ₃	mg/L	1760	1720	1690
Calcium	mg/L	616	652	644
Chloride	mg/L	243	263	250
Magnesium	mg/L	788	824	812
Nitrogen, Ammonia as N	mg/L	0.67	0.44	0.44
Nitrogen, Nitrate+Nitrite as N	mg/L	56.9	54.2	49.5
Potassium	mg/L	10.4	10	9.4
Sodium	mg/L	364	353	394
Sulfate	mg/L	3380	3700	3610
pH	s.u.	6.63	7.36	7.77
Solids, Total Dissolved TDS @ 180 C	mg/L	7320	7200	7310
Aluminum	mg/L	ND(0.1)	0.2	ND(0.1)
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	ND(0.01)	ND(0.01)	ND(0.01)
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	1.24	1.44	1.24
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	ND(0.0008)	0.0625	0.0700
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	0.001	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	ND(1.0)	1.5	1.6
Gross Alpha minus Rn & U Precision (±)	pCi/L		1.0	1.0
Lead 210	pCi/L	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L			
Radium 226	pCi/L	0.5	1.1	0.5
Radium 226 precision (±)	pCi/L	0.3	0.4	0.3
Radium 228	pCi/L	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 precision (±)	pCi/L			
Thorium 230	pCi/L	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L			
A/C Balance (± 5)		0.700	0.180	
Anions		110	117	
Cations		112	117	
Solids, Total Dissolved Calculated		6520	6900	
TDS Balance (0.80 - 1.20)		1.12	1.04	
Chloroform	ug/L	2.5	2.6	2.4
				ND(1.0)

**Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the quarterly reports.



Date: 13-Aug-04

CLIENT: United Nuclear Corp
Project: Alluvium
Sample Delivery Group: C04040401

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

REVISED REPORT

The attached analytical report has been revised from a previously submitted report due to data correction for manganese on sample 009.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-cs - Energy Laboratories, Inc. - College Station, TX
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package. A copy of the submittal(s) has been included and tracked in the data package.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the last four digits of the tracking number located in the lower right corner.