SEMI – ANNUAL QUALITY ASSURANCE

CHURCH ROCK SITE

JULY TO OCTOBER OF 2010 SAMPLING EVENTS

FEBRUARY - 2010

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1.0 REQUIREMENTS

The quality assurance and control procedures are contained in Sec. 3.0 of the Remedial Action Plan of Church Rock Site dated April 1989. The procedure address sampling, chain of custody, laboratory quality control, and data validation. These requirements became effective July3, 1989, when United Nuclear received the Administrative Order on the Church Rock Site from the U.S. Environmental Protection Agency (USEPA).

2.0 FIELD SAMPLING PROCEDURES AND QA/QC REPORT

Copies of the 2010 quarterly (3rd and 4th) field low flow purging and sampling data sheets are included in Appendix A. These sheets indicate the field parameter of pH, temperature, conductivity, and the water level drop in the well if any, during the sampling. The quarterly QA/QC Field Blank and Duplicate analysis report are included in Appendix B.

3.0 CHAIN OF CUSTODY

Copies of the quarterly Chain of Custody report are included in Appendix C. Energy Laboratories, Inc., our contract laboratory is located in Casper, Wyoming. Energy Labs inspect the sample shipment upon arrival to verify the information of the Chain of Custody form and to determine if sample arrive at the appropriate temperature.

4.0 LABORATORY CONTROL

Copies of the quarterly internal Quality Control reports prepared by Energy Laboratories and associated EPA performance evaluations are included in Appendix D (1 of 2 and 2 of 2).

5.0 DATA EVALUATION

Analytical reports are reviewed by the Remedial Project Managers and site Radiation Safety Officer after receipt from Energy Labs. Significant increase or decrease and out of range values are identified and the laboratory is requested to recheck the suspect values. The laboratory responds by checking transcription for these items, and where necessary, repeats the analysis. A revised report is then issued for that sample if an error is discovered.

APPENDIX – A

QUARTERLY

FIELD DATA SHEET

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-12-10/0855	[illegible]
7-Buffer	6.98	7-12-10/0856	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
Third QUARTER **2010**
SAMPLING

Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm	1404	7-12-10/0857	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	509-0	78.50'	78.50'	1st Cond. 5,310	2nd Cond. 5,610	Stable Cond. 5,660	Ending Cond. 6,280
				1st pH 6.79	2nd pH 6.79	Stable pH 6.75	Ending pH 6.31
				1st Temp. 15.9	2nd Temp. 15.9	Stable Temp. 15.6	Ending Temp. 15.1
	Time	Bubbler Start	Bubbler End	Comments: Conductivity is in uS/cm Temperature is in °C pH is in std. units			
	0922	2.101'	2.049'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	EPA-23	55.00'	55.25'	1st Cond. 3,380	2nd Cond. 3,890	Stable Cond. 4,160	Ending Cond. 4,280
				1st pH 6.63	2nd pH 6.61	Stable pH 6.54	Ending pH 6.46
				1st Temp. 18.2	2nd Temp. 17.2	Stable Temp. 16.6	Ending Temp. 16.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1005	7.002'	6.718'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	803	62.25'	62.40'	1st Cond. 4,690	2nd Cond. 5,440	Stable Cond. 5,830	Ending Cond. 6,170
				1st pH 6.47	2nd pH 6.40	Stable pH 6.38	Ending pH 6.34
				1st Temp. 17.7	2nd Temp. 17.4	Stable Temp. 16.9	Ending Temp. 15.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1045	14.630'	14.477'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	808	49.65'	49.75'	1st Cond. 4,780	2nd Cond. 5,280	Stable Cond. 5,780	Ending Cond. 6,230
				1st pH 6.68	2nd pH 6.59	Stable pH 6.44	Ending pH 6.34
				1st Temp. 18.3	2nd Temp. 17.4	Stable Temp. 17.0	Ending Temp. 16.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1120	14.075'	13.940'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	802	48.00'	48.05'	1st Cond. 5,170	2nd Cond. 5,860	Stable Cond. 6,610	Ending Cond. 7,080
				1st pH 6.56	2nd pH 6.45	Stable pH 6.43	Ending pH 6.37
				1st Temp. 19.5	2nd Temp. 19.1	Stable Temp. 17.7	Ending Temp. 16.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1200	19.742'	19.704'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-12-10	801	51.65'	52.80'	1st Cond. 4,990	2nd Cond. 5,360	Stable Cond. 5,510	Ending Cond. 5,510
				1st pH 6.44	2nd pH 6.45	Stable pH 6.43	Ending pH 6.43
				1st Temp. 19.8	2nd Temp. 19.4	Stable Temp. 19.0	Ending Temp. 19.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1240	10.062'	9.059'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.05	7-13-10/0821	[illegible]
7-Buffer	6.94	7-13-10/0820	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1465	7-13-10/0822	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,270	2nd Cond. 6,750	Stable Cond. 6,970	Ending Cond. 7,610
	GW-2			1st pH 6.22	2nd pH 6.22	Stable pH 6.21	Ending pH 6.17
		56.05'	56.80'	1st Temp. 18.9	2nd Temp. 18.8	Stable Temp. 17.5	Ending Temp. 17.4
7-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1330	14.805'	14.072'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,020	2nd Cond. 5,480	Stable Cond. 5,680	Ending Cond. 6,630
	GW-1			1st pH 7.06	2nd pH 6.94	Stable pH 6.83	Ending pH 6.43
		61.75'	61.85'	1st Temp. 18.8	2nd Temp. 18.3	Stable Temp. 18.0	Ending Temp. 18.2
7-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1415	8.985'	8.920'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,280	2nd Cond. 5,950	Stable Cond. 6,270	Ending Cond. 6,270
	632			1st pH 6.43	2nd pH 6.39	Stable pH 6.37	Ending pH 6.37
		44.70'	47.10'	1st Temp. 19.6	2nd Temp. 18.6	Stable Temp. 17.8	Ending Temp. 17.8
7-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1500	12.382'	9.635'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,390	2nd Cond. 4,490	Stable Cond. 5,000	Ending Cond. 5,120
	624			1st pH 6.97	2nd pH 6.79	Stable pH 6.53	Ending pH 6.42
		51.05'	51.15'	1st Temp. 15.5	2nd Temp. 15.3	Stable Temp. 14.7	Ending Temp. 15.1
7-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	0850	10.660'	10.555'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,800	2nd Cond. 6,430	Stable Cond. 6,560	Ending Cond. 7,130
	SBL-1			1st pH 7.05	2nd pH 6.96	Stable pH 6.73	Ending pH 6.50
		50.50'	51.40'	1st Temp. 17.6	2nd Temp. 17.0	Stable Temp. 16.5	Ending Temp. 15.4
7-13-10	Time	Bubbler Start	Bubbler End	Comments: Inspect the line check valve.			
	0930	4.255'	3.343'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,060	2nd Cond. 4,370	Stable Cond. 4,600	Ending Cond. 4,780
	EPA-28			1st pH 6.72	2nd pH 6.70	Stable pH 6.63	Ending pH 6.63
		63.15'	63.65'	1st Temp. 17.9	2nd Temp. 17.6	Stable Temp. 16.9	Ending Temp. 15.5
7-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1010	7.279'	6.815'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28	63.65'	63.65'	1st Cond. 4,780	2nd Cond. 4,780	Stable Cond. 4,800	Ending Cond. 4,700
	DUPLICATE			1st pH 6.63	2nd pH 6.64	Stable pH 6.64	Ending pH 6.63
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 15.0	2nd Temp. 15.1	Stable Temp. 14.9	Ending Temp. 15.6
	1040	6.815'	6.700'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-3	53.15'	55.50'	1st Cond. 4,270	2nd Cond. 4,480	Stable Cond. 4,980	Ending Cond. 5,150
				1st pH 6.77	2nd pH 6.70	Stable pH 6.58	Ending pH 6.40
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 17.6	2nd Temp. 17.5	Stable Temp. 17.5	Ending Temp. 17.5
	1125	2.466'	0.215'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-25	53.90'	54.00'	1st Cond. 3,030	2nd Cond. 3,430	Stable Cond. 3,690	Ending Cond. 4,230
				1st pH 6.95	2nd pH 6.90	Stable pH 6.81	Ending pH 6.61
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 19.3	2nd Temp. 19.3	Stable Temp. 17.7	Ending Temp. 18.1
	1218	7.060'	6.955'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	627	58.65'	58.75'	1st Cond. 3,660	2nd Cond. 4,060	Stable Cond. 4,270	Ending Cond. 4,520
				1st pH 6.81	2nd pH 6.77	Stable pH 6.76	Ending pH 6.72
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 20.1	2nd Temp. 20.5	Stable Temp. 19.6	Ending Temp. 18.9
	1315	3.963'	3.901'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	613	79.10'	80.10'	1st Cond. 7,900	2nd Cond. 8,250	Stable Cond. 8,880	Ending Cond. 9,300
				1st pH 3.07	2nd pH 3.05	Stable pH 2.98	Ending pH 2.84
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 19.5	2nd Temp. 19.6	Stable Temp. 18.0	Ending Temp. 16.2
	1405	5.663'	4.696'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-14	119.90'	119.50'	1st Cond. 4,920	2nd Cond. 5,050	Stable Cond. 5,140	Ending Cond. 5,350
				1st pH 4.22	2nd pH 4.22	Stable pH 4.23	Ending pH 4.17
7-13-10	Time	Bubbler Start	Bubbler End	1st Temp. 16.9	2nd Temp. 16.6	Stable Temp. 16.3	Ending Temp. 15.5
	1450	2.499'	2.800'	Comments:			

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PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.03	7-14-10/0832	[illegible]
7-Buffer	6.96	7-14-10/0830	[illegible]

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1450	7-14-10/0835	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-10	604	102.95'	103.70'	1st Cond. 5,460	2nd Cond. 5,800	Stable Cond. 5,930	Ending Cond. 6,060
				1st pH 5.43	2nd pH 5.45	Stable pH 5.41	Ending pH 5.37
				1st Temp. 15.3	2nd Temp. 15.0	Stable Temp. 14.9	Ending Temp. 14.7
	Time	Bubbler Start	Bubbler End	Comments:			
	0900	6.604'	5.767'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-10	515-A	104.25'	109.10'	1st Cond. 7,140	2nd Cond. 7,200	Stable Cond. 7,210	Ending Cond. 7,240
				1st pH 6.49	2nd pH 6.48	Stable pH 6.45	Ending pH 6.30
				1st Temp. 16.8	2nd Temp. 16.9	Stable Temp. 15.4	Ending Temp. 15.6
	Time	Bubbler Start	Bubbler End	Comments:			
	0955	4.270	0.295				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-10	614	103.85'	104.60'	1st Cond. 6,280	2nd Cond. 6,530	Stable Cond. 6,810	Ending Cond. 7,080
				1st pH 7.06	2nd pH 7.09	Stable pH 7.09	Ending pH 7.06
				1st Temp. 24.0	2nd Temp. 16.9	Stable Temp. 16.5	Ending Temp. 16.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1100	2.732'	1.964'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-10	FIELD BLANK			1st Cond. 20	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 8.44	2nd pH	Stable pH	Ending pH
				1st Temp. 26.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1150						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-19-10/0903	[illegible]
7-Buffer	6.99	7-19-10/0900	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1434	7-19-10/0905	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	EPA-4	206.60'	107.10'	1st Cond. 3,310	2nd Cond. 3,850	Stable Cond. 3,930	Ending Cond. 4,070
				1st pH 7.56	2nd pH 7.55	Stable pH 7.56	Ending pH 6.51
				1st Temp. 16.9	2nd Temp. 17.0	Stable Temp. 16.3	Ending Temp. 16.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0940	16.302'	16.019'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	EPA-5	125.00'	125.65'	1st Cond. 3,580	2nd Cond. 3,860	Stable Cond. 3,950	Ending Cond. 4,050
				1st pH 6.32	2nd pH 6.28	Stable pH 6.24	Ending pH 5.85
				1st Temp. 18.6	2nd Temp. 18.2	Stable Temp. 18.0	Ending Temp. 17.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1035	5.965'	5.350'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	EPA-7	114.65'	116.50'	1st Cond. 6,040	2nd Cond. 6,710	Stable Cond. 7,120	Ending Cond. 7,230
				1st pH 7.52	2nd pH 7.51	Stable pH 7.49	Ending pH 5.88
				1st Temp. 18.7	2nd Temp. 18.2	Stable Temp. 17.9	Ending Temp. 16.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1115	12.552'	10.750'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	EPA-2	173.20'	174.10'	1st Cond. 2,550	2nd Cond. 2,580	Stable Cond. 2,600	Ending Cond. 2,580
				1st pH 7.24	2nd pH 7.24	Stable pH 7.25	Ending pH 6.61
				1st Temp. 18.1	2nd Temp. 17.6	Stable Temp. 17.6	Ending Temp. 15.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1200	8.351'	7.582'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	EPA-2 DUPLICATE	174.10'	174.30'	1st Cond. 2,580	2nd Cond. 2,590	Stable Cond. 2,590	Ending Cond. 2,600
				1st pH 6.61	2nd pH 6.60	Stable pH 6.60	Ending pH 6.60
				1st Temp. 15.5	2nd Temp. 15.3	Stable Temp. 15.1	Ending Temp. 16.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1230	7.582'	7.369'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-19-10	517	103.20'	109.05'	1st Cond. 4,440	2nd Cond. 4,650	Stable Cond. 4,810	Ending Cond. 4,610
				1st pH 2.81	2nd pH 2.78	Stable pH 2.75	Ending pH 3.70
				1st Temp. 20.9	2nd Temp. 21.0	Stable Temp. 20.6	Ending Temp. 20.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1300	3.645'	0.300'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-20-10/0824	[illegible]
7-Buffer	6.96	7-20-10/0821	[illegible]

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Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm	1458	7-20-10/0825	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading	Comments
7-19-10	708	153.55'	154.70'	1st Cond. 4,280	2nd Cond. 4,810	Stable Cond. 5,000	Ending Cond. 4,980	
				1st pH 2.67	2nd pH 2.68	Stable pH 2.67	Ending pH 3.58	
				1st Temp. 18.8	2nd Temp. 18.6	Stable Temp. 17.9	Ending Temp. 15.8	
	Time 1400	Bubbler Start 5.089'	Bubbler End 3.892'					
7-19-10	711	181.85'	182.90'	1st Cond. 4,050	2nd Cond. 4,220	Stable Cond. 4,390	Ending Cond. 4,190	
				1st pH 3.01	2nd pH 3.05	Stable pH 3.01	Ending pH 4.45	
				1st Temp. 19.1	2nd Temp. 18.5	Stable Temp. 18.7	Ending Temp. 16.3	
	Time 1450	Bubbler Start	Bubbler End					Comments: The quick disconnect coupling (in-line hose barb fitting) to the electronic water level meter (bubbler) was accidentally broken during the sampling process.
7-19-10	711 DUPLICATE	182.90'	183.45'	1st Cond. 4,220	2nd Cond. 4,220	Stable Cond. 4,230	Ending Cond. 4,180	
				1st pH 4.48	2nd pH 4.48	Stable pH 4.50	Ending pH 4.70	
				1st Temp. 16.2	2nd Temp. 15.9	Stable Temp. 16.0	Ending Temp. 15.9	
	Time 1540	Bubbler Start	Bubbler End					
7-20-10	EPA-13	167.20'	168.50'	1st Cond. 5,280	2nd Cond. 5,430	Stable Cond. 5,510	Ending Cond. 5,480	
				1st pH 6.50	2nd pH 6.56	Stable pH 6.62	Ending pH 5.82	
				1st Temp. 15.7	2nd Temp. 15.6	Stable Temp. 15.3	Ending Temp. 15.1	
	Time 0850	Bubbler Start	Bubbler End					
7-20-10	719	167.45'	167.90'	1st Cond. 4,540	2nd Cond. 4,700	Stable Cond. 4,830	Ending Cond. 4,850	
				1st pH 3.53	2nd pH 3.48	Stable pH 3.48	Ending pH 4.59	
				1st Temp. 17.5	2nd Temp. 17.3	Stable Temp. 17.2	Ending Temp. 18.2	
	Time 0925	Bubbler Start	Bubbler End					Comments: Need to inspect the overall well pumping system due to a very slow discharge.
7-20-10	420	149.45'	150.45'	1st Cond. 2,660	2nd Cond. 3,050	Stable Cond. 3,180	Ending Cond. 3,240	
				1st pH 7.23	2nd pH 7.28	Stable pH 7.34	Ending pH 6.47	
				1st Temp. 17.7	2nd Temp. 16.9	Stable Temp. 16.6	Ending Temp. 15.6	
	Time 1025	Bubbler Start	Bubbler End					

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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GROUND WATER MONITORING FIELD DATA SHEET

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SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 4,970	2nd Cond. 5,150	Stable Cond. 5,240	Ending Cond. 5,330
				1st pH 4.04	2nd pH 4.04	Stable pH 4.04	Ending pH 3.95
		129.75'	129.80'	1st Temp. 20.7	2nd Temp. 20.8	Stable Temp. 20.7	Ending Temp. 19.8
7-20-10	Time	Bubbler Start	Bubbler End	Comments: Need to inspect the overall well pumping system due to a very slow discharge.			
	1100						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	TWQ-142			1st Cond. 1,503	2nd Cond. 1,619	Stable Cond. 1,674	Ending Cond. 1,723
				1st pH 7.29	2nd pH 7.30	Stable pH 7.30	Ending pH 7.67
		201.25'	202.30'	1st Temp. 19.0	2nd Temp. 19.3	Stable Temp. 17.9	Ending Temp. 16.6
7-20-10	Time	Bubbler Start	Bubbler End	Comments: Need to inspect well head cap fittings due to pressure leakage.			
	1230						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NBL-1			1st Cond. 3,620	2nd Cond. 3,740	Stable Cond. 3,930	Ending Cond. 3,930
				1st pH 3.09	2nd pH 3.03	Stable pH 2.97	Ending pH 4.46
		185.15'	185.30'	1st Temp. 20.9	2nd Temp. 20.9	Stable Temp. 19.7	Ending Temp. 18.5
7-20-10	Time	Bubbler Start	Bubbler End	Comments:			
	1310						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	504-B			1st Cond. 4,720	2nd Cond. 5,270	Stable Cond. 5,410	Ending Cond. 5,460
				1st pH 3.11	2nd pH 3.14	Stable pH 3.13	Ending pH 3.13
		168.50'	168.70'	1st Temp. 21.1	2nd Temp. 20.4	Stable Temp. 20.1	Ending Temp. 19.8
7-20-10	Time	Bubbler Start	Bubbler End	Comments: Sample collected this quarter after well line cleaning maintenance work is done (e.g. pressure airlift/purge the pipeline and clean/replace pump parts) on 6/18, 21, 22/10.			
	1435						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD BLANK			1st Cond. 38	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.63	2nd pH	Stable pH	Ending pH
				1st Temp. 30.9	2nd Temp.	Stable Temp.	Ending Temp.
7-20-10	Time	Bubbler Start	Bubbler End	Comments:			
	1600						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-20-10/0824	rc
7-Buffer	6.96	7-20-10/0821	rc

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Cond. Standard Verification Check

STD:	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1458	7-20-10/0825	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-20-10	NBL-2	159.25'	159.65'	1st Cond. 2,970	2nd Cond. 3,140	Stable Cond. 3,260	Ending Cond. 3,260
				1st pH 6.38	2nd pH 6.42	Stable pH 6.45	Ending pH 6.45
				1st Temp. 18.5	2nd Temp. 16.6	Stable Temp. 16.0	Ending Temp. 16.0
	Time 1215	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-20-10	PB-3	182.85'	182.95'	1st Cond. 2,700	2nd Cond. 3,170	Stable Cond. 3,240	Ending Cond. 3,290
				1st pH 6.81	2nd pH 6.93	Stable pH 7.05	Ending pH 7.13
				1st Temp. 20.9	2nd Temp. 19.0	Stable Temp. 19.2	Ending Temp. 18.6
	Time 1355	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-20-10	PB-4	182.30'	182.30'	1st Cond. 4,400	2nd Cond. 4,530	Stable Cond. 4,600	Ending Cond. 4,670
				1st pH 2.64	2nd pH 2.64	Stable pH 2.62	Ending pH 2.62
				1st Temp. 26.3	2nd Temp. 26.2	Stable Temp. 25.7	Ending Temp. 25.3
	Time 1410	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	PB-2	186.00'		1st Cond. 4,480	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.78	2nd pH	Stable pH	Ending pH
				1st Temp. 23.8	2nd Temp.	Stable Temp.	Ending Temp.
	Time 0935	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	NW-2	186.10'		1st Cond. 3,630	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.46	2nd pH	Stable pH	Ending pH
				1st Temp. 22.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 0950	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	NW-5	179.40'		1st Cond. 3,590	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.71	2nd pH	Stable pH	Ending pH
				1st Temp. 14.1	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1005	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-21-10 / 0916	[illegible]
7-Buffer	6.96	7-21-10 / 0915	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1458	7-21-10 / 097	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	NW-3	179.25'		1st Cond. 3,690	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.69	2nd pH	Stable pH	Ending pH
				1st Temp. 13.6	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1020	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	RW-A	183.75'		1st Cond. 3,790	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.34	2nd pH	Stable pH	Ending pH
				1st Temp. 18.4	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1030	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	NW-4	190.60'		1st Cond. 4,030	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.17	2nd pH	Stable pH	Ending pH
				1st Temp. 16.1	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1045	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-21-10	NW-1	199.00'		1st Cond. 4,200	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.12	2nd pH	Stable pH	Ending pH
				1st Temp. 20.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1100	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.94	9-20-10/1122	[illegible]
7-Buffer	6.98	9-20-10/1124	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1453	9-20-10/1125	[illegible]

Date 9-20-10	Well Number DOMESTIC WATER WELL	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond. 3,210	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH 8.65	2nd pH	Stable pH	Ending pH
				1st Temp. 17.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1358	Bubbler Start	Bubbler End	Comments: Special well sample to determine water quality and for future injection well test in Zone 3.			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond.	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond.	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond.	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond.	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading 1st Cond.	Reading 2nd Cond.	Reading Stable Cond.	Reading Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.07	10-4-10/0853	[illegible]
7-Buffer	7.09	10-4-10/0850	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1393	10-4-10/0854	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,590	2nd Cond. 5,850	Stable Cond. 6,130	Ending Cond. 6,250
	509-D			1st pH 6.76	2nd pH 6.70	Stable pH 6.65	Ending pH 6.41
		78.65'	78.80'	1st Temp. 14.3	2nd Temp. 14.1	Stable Temp. 14.0	Ending Temp. 14.0
10-4-10	Time	Bubbler Start	Bubbler End	Comments: Conductivity is in uS/cm Temperature is in °C pH is in std. units			
	0922	1.739'	1.709'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,650	2nd Cond. 3,950	Stable Cond. 4,120	Ending Cond. 4,280
	EPA-23			1st pH 6.70	2nd pH 6.65	Stable pH 6.61	Ending pH 6.59
		55.20'	55.55'	1st Temp. 15.3	2nd Temp. 14.9	Stable Temp. 14.7	Ending Temp. 14.8
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1002	6.672'	6.327'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,200	2nd Cond. 5,150	Stable Cond. 5,830	Ending Cond. 6,130
	803			1st pH 6.71	2nd pH 6.61	Stable pH 6.53	Ending pH 6.41
		62.55'	63.70'	1st Temp. 16.4	2nd Temp. 15.7	Stable Temp. 15.4	Ending Temp. 15.1
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1036	14.193'	14.065'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,030	2nd Cond. 5,420	Stable Cond. 5,650	Ending Cond. 6,040
	808			1st pH 6.75	2nd pH 6.62	Stable pH 6.57	Ending pH 6.43
		49.90'	50.10'	1st Temp. 16.0	2nd Temp. 16.0	Stable Temp. 15.5	Ending Temp. 15.5
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1112	13.679'	13.518'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,470	2nd Cond. 6,100	Stable Cond. 6,500	Ending Cond. 7,020
	802			1st pH 6.64	2nd pH 6.57	Stable pH 6.53	Ending pH 6.46
		48.30'	48.40'	1st Temp. 16.9	2nd Temp. 16.4	Stable Temp. 16.1	Ending Temp. 17.4
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1150	19.404'	19.249'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,390	2nd Cond. 5,610	Stable Cond. 5,830	Ending Cond. 5,780
	801			1st pH 6.57	2nd pH 6.57	Stable pH 6.50	Ending pH 6.45
		52.00'	53.10'	1st Temp. 17.5	2nd Temp. 17.5	Stable Temp. 16.6	Ending Temp. 15.5
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1240	9.661'	8.566'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.01	10-5-10/0821	[illegible]
7-Buffer	6.92	10-5-10/0818	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1430	10-5-10/0822	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-2			1st Cond. 2,690	2nd Cond. 7,090	Stable Cond. 7,200	Ending Cond. 7,860
				1st pH 6.29	2nd pH 6.29	Stable pH 6.28	Ending pH 6.27
		56.40'	57.10'	1st Temp. 16.6	2nd Temp. 16.3	Stable Temp. 16.1	Ending Temp. 15.0
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1325	14.419'	13.715'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-1			1st Cond. 5,030	2nd Cond. 5,510	Stable Cond. 5,910	Ending Cond. 6,410
				1st pH 7.19	2nd pH 7.07	Stable pH 6.84	Ending pH 6.57
		62.05'	62.05'	1st Temp. 18.0	2nd Temp. 18.4	Stable Temp. 17.0	Ending Temp. 16.2
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1412	8.663'	8.579'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	632			1st Cond. 5,860	2nd Cond. 5,930	Stable Cond. 6,410	Ending Cond. 6,420
				1st pH 6.57	2nd pH 6.52	Stable pH 6.44	Ending pH 6.41
		44.90'	48.20'	1st Temp. 17.9	2nd Temp. 17.6	Stable Temp. 16.4	Ending Temp. 15.1
10-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1500	12.071'	8.627'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	624			1st Cond. 4,650	2nd Cond. 4,840	Stable Cond. 4,960	Ending Cond. 4,980
				1st pH 6.69	2nd pH 6.63	Stable pH 6.62	Ending pH 6.53
		51.20'	51.25'	1st Temp. 14.1	2nd Temp. 14.0	Stable Temp. 13.9	Ending Temp. 13.9
10-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	0855	11.318'	11.282'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	SBL-1			1st Cond. 6,630	2nd Cond. 6,710	Stable Cond. 6,750	Ending Cond. 6,750
				1st pH 6.98	2nd pH 6.96	Stable pH 6.93	Ending pH 6.50
		50.45'	51.25'	1st Temp. 15.5	2nd Temp. 15.1	Stable Temp. 15.0	Ending Temp. 14.0
10-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	0938	4.275'	3.480'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28			1st Cond. 4,450	2nd Cond. 4,530	Stable Cond. 4,580	Ending Cond. 4,720
				1st pH 7.02	2nd pH 6.97	Stable pH 6.91	Ending pH 6.76
		63.40'	64.90'	1st Temp. 14.8	2nd Temp. 14.7	Stable Temp. 14.5	Ending Temp. 13.5
10-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1022	6.984'	6.455'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28			1st Cond. 4,720	2nd Cond. 4,760	Stable Cond. 4,770	Ending Cond. 4,680
	DUPLICATE	64.90'	64.00'	1st pH 6.75	2nd pH 6.77	Stable pH 6.76	Ending pH 6.78
10-5-10				1st Temp. 13.5	2nd Temp. 13.4	Stable Temp. 13.4	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1050	6.455'	6.338'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	613			1st Cond. 7,780	2nd Cond. 8,220	Stable Cond. 8,770	Ending Cond. 9,300
		79.05'	80.15'	1st pH 3.05	2nd pH 3.04	Stable pH 3.03	Ending pH 2.93
10-5-10				1st Temp. 16.0	2nd Temp. 16.1	Stable Temp. 15.5	Ending Temp. 13.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1130	5.586'	4.612'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-14			1st Cond. 5,100	2nd Cond. 5,180	Stable Cond. 5,280	Ending Cond. 5,410
		119.50'	119.70'	1st pH 4.29	2nd pH 4.29	Stable pH 4.30	Ending pH 4.26
10-5-10				1st Temp. 14.7	2nd Temp. 14.4	Stable Temp. 14.3	Ending Temp. 13.9
	Time	Bubbler Start	Bubbler End	Comments: Need to inspect transducer line (bubbler).			
	1210	2.575'	2.497'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-3			1st Cond. 4,100	2nd Cond. 4,460	Stable Cond. 4,680	Ending Cond. 5,290
		53.50'	56.85'	1st pH 6.95	2nd pH 6.92	Stable pH 6.85	Ending pH 6.59
10-5-10				1st Temp. 15.5	2nd Temp. 15.2	Stable Temp. 15.2	Ending Temp. 14.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1300	2.071'	0.168'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-25			1st Cond. 3,490	2nd Cond. 3,640	Stable Cond. 3,750	Ending Cond. 4,110
		54.00'	54.15'	1st pH 6.97	2nd pH 6.92	Stable pH 6.90	Ending pH 6.82
10-5-10				1st Temp. 14.5	2nd Temp. 14.7	Stable Temp. 14.4	Ending Temp. 13.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1355	6.853'	6.752'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	627			1st Cond. 4,160	2nd Cond. 4,220	Stable Cond. 4,270	Ending Cond. 4,650
		58.75'	59.85'	1st pH 6.98	2nd pH 6.96	Stable pH 6.95	Ending pH 6.94
10-5-10				1st Temp. 14.9	2nd Temp. 14.6	Stable Temp. 14.5	Ending Temp. 13.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1450	3.814'	3.770'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.92	10-6-10/0850	KC
7-Buffer	6.95	10-6-10/0852	KC

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Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm	1428	10-6-10/0855	KC

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	614			1st Cond. 6,280	2nd Cond. 6,550	Stable Cond. 6,630	Ending Cond. 7,140
				1st pH 6.98	2nd pH 7.03	Stable pH 7.15	Ending pH 7.21
		103.85'	104.65'	1st Temp. 14.1	2nd Temp. 14.0	Stable Temp. 14.0	Ending Temp. 13.5
10-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	0900	2.576'	1.889'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	515-A			1st Cond. 6,340	2nd Cond. 6,440	Stable Cond. 7,640	Ending Cond. 7,850
				1st pH 7.55	2nd pH 7.41	Stable pH 7.36	Ending pH 7.13
		104.10'	107.10'	1st Temp. 15.2	2nd Temp. 14.5	Stable Temp. 14.2	Ending Temp. 13.8
10-6-10	Time	Bubbler Start	Bubbler End	Comments: Need to inspect check valve ball due to slow discharge.			
	0940	4.948'	0.098'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	604			1st Cond. 4,840	2nd Cond. 4,870	Stable Cond. 5,790	Ending Cond. 6,080
				1st pH 6.51	2nd pH 5.88	Stable pH 5.61	Ending pH 5.24
		103.05'	103.90'	1st Temp. 16.0	2nd Temp. 15.3	Stable Temp. 14.8	Ending Temp. 13.8
10-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1030	6.375'	5.586'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD			1st Cond. 34	2nd Cond.	Stable Cond.	Ending Cond.
	BLANK			1st pH 6.22	2nd pH	Stable pH	Ending pH
				1st Temp. 19.2	2nd Temp.	Stable Temp.	Ending Temp.
10-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1150						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.04	10-11-10/0821	[illegible]
7-Buffer	7.07	10-11-10/0819	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1412	10-11-10/0821	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-4			1st Cond. 3,570	2nd Cond. 3,930	Stable Cond. 3,960	Ending Cond. 4,160
				1st pH 7.08	2nd pH 7.14	Stable pH 7.24	Ending pH 6.64
		206.45'	207.00'	1st Temp. 13.4	2nd Temp. 13.4	Stable Temp. 13.2	Ending Temp. 14.0
10-11-10	Time	Bubbler Start	Bubbler End	Comments: No bubbler reading due to weak battery in meter.			
	0906						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-5			1st Cond. 3,620	2nd Cond. 3,840	Stable Cond. 4,050	Ending Cond. 4,150
				1st pH 6.74	2nd pH 6.70	Stable pH 6.62	Ending pH 5.97
		124.85'	125.45'	1st Temp. 15.5	2nd Temp. 15.3	Stable Temp. 14.8	Ending Temp. 14.7
10-11-10	Time	Bubbler Start	Bubbler End	Comments: Replaced battery to water level meter (bubbler).			
	1007	5.939'	5.363'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-7			1st Cond. 6,400	2nd Cond. 6,990	Stable Cond. 7,230	Ending Cond. 7,230
				1st pH 7.81	2nd pH 7.82	Stable pH 7.84	Ending pH 6.00
		114.50'	116.20'	1st Temp. 14.6	2nd Temp. 14.5	Stable Temp. 14.3	Ending Temp. 14.0
10-11-10	Time	Bubbler Start	Bubbler End	Comments:			
	1050	12.538'	10.817'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-2			1st Cond. 2,540	2nd Cond. 2,560	Stable Cond. 2,820	Ending Cond. 2,570
				1st pH 7.34	2nd pH 7.41	Stable pH 7.48	Ending pH 6.75
		173.00'	174.95'	1st Temp. 14.8	2nd Temp. 14.5	Stable Temp. 14.2	Ending Temp. 14.0
10-11-10	Time	Bubbler Start	Bubbler End	Comments:			
	1140	8.368'	7.591'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-2			1st Cond. 2,570	2nd Cond. 2,580	Stable Cond. 2,570	Ending Cond. 2,570
	DUPLICATE			1st pH 6.74	2nd pH 6.74	Stable pH 6.74	Ending pH 6.74
		174.95'	174.95'	1st Temp. 14.0	2nd Temp. 14.0	Stable Temp. 13.8	Ending Temp. 14.3
10-11-10	Time	Bubbler Start	Bubbler End	Comments:			
	1211	7.591'	7.360'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	517			1st Cond. 4,410	2nd Cond. 4,730	Stable Cond. 4,940	Ending Cond. 4,600
				1st pH 2.79	2nd pH 2.78	Stable pH 2.77	Ending pH 3.72
		103.05'	109.90'	1st Temp. 16.8	2nd Temp. 16.4	Stable Temp. 16.1	Ending Temp. 16.6
10-11-10	Time	Bubbler Start	Bubbler End	Comments:			
	1245	3.575'	0.286'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.90	10-12-10/0900	RC
7-Buffer	6.90	10-12-10/0849	RC

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1428	10-12-10/0901	RC

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-11-10	708	153.35'	155.60'	1st Cond. 4,040	2nd Cond. 4,770	Stable Cond. 4,980	Ending Cond. 4,840
				1st pH 2.68	2nd pH 2.72	Stable pH 2.67	Ending pH 3.57
				1st Temp. 16.2	2nd Temp. 16.0	Stable Temp. 15.6	Ending Temp. 15.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1351	4.964'	3.823'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-11-10	711	181.70'	182.55'	1st Cond. 3,770	2nd Cond. 4,090	Stable Cond. 4,300	Ending Cond. 4,300
				1st pH 3.03	2nd pH 3.05	Stable pH 3.05	Ending pH 3.05
				1st Temp. 16.7	2nd Temp. 16.4	Stable Temp. 15.8	Ending Temp. 15.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1438	10.379'	9.411'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-11-10	711 DUPLICATE	182.55'	183.20'	1st Cond. 4,300	2nd Cond. 4,300	Stable Cond. 4,300	Ending Cond. 4,300
				1st pH 3.05	2nd pH 3.05	Stable pH 3.05	Ending pH 3.05
				1st Temp. 15.8	2nd Temp. 15.8	Stable Temp. 15.8	Ending Temp. 15.8
	Time	Bubbler Start	Bubbler End	Comments: Need to replace damaged pump bladder.			
	1515	9.411'	8.646'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-11-10	EPA-13	166.90'	168.15'	1st Cond. 4,430	2nd Cond. 4,980	Stable Cond. 5,250	Ending Cond. 5,410
				1st pH 6.25	2nd pH 6.33	Stable pH 6.42	Ending pH 5.89
				1st Temp. 15.7	2nd Temp. 15.4	Stable Temp. 15.0	Ending Temp. 14.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1545	4.543'	3.349'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	719	167.60'	168.00'	1st Cond. 4,480	2nd Cond. 4,580	Stable Cond. 4,680	Ending Cond. 4,720
				1st pH 3.73	2nd pH 3.69	Stable pH 3.69	Ending pH 4.62
				1st Temp. 14.4	2nd Temp. 14.4	Stable Temp. 14.2	Ending Temp. 15.3
	Time	Bubbler Start	Bubbler End	Comments:			
	0913	0.359'	0.332'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	420	149.60'	150.70'	1st Cond. 2,590	2nd Cond. 3,000	Stable Cond. 3,150	Ending Cond. 3,250
				1st pH 7.13	2nd pH 7.19	Stable pH 7.25	Ending pH 6.54
				1st Temp. 14.8	2nd Temp. 14.6	Stable Temp. 14.4	Ending Temp. 14.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1013	4.681'	3.768'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 4,870	2nd Cond. 5,070	Stable Cond. 5,200	Ending Cond. 5,200
				1st pH 4.23	2nd pH 4.23	Stable pH 4.23	Ending pH 4.23
		129.90'	130.80'	1st Temp. 16.9	2nd Temp. 16.9	Stable Temp. 16.8	Ending Temp. 16.8
10-12-10	Time	Bubbler Start	Bubbler End	Comments: Inspect check valve unit and need to extend tubing/line to lower pump by about 10' due to decreasing water level (pump is close to water level).			
	1055	1.625'	1.404'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	TWQ-142			1st Cond. 1,622	2nd Cond. 1,674	Stable Cond. 1,700	Ending Cond. 1,738
				1st pH 7.43	2nd pH 7.45	Stable pH 7.44	Ending pH 7.76
		201.20'	202.00'	1st Temp. 16.9	2nd Temp. 16.1	Stable Temp. 15.7	Ending Temp. 15.0
10-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1258	19.542'	18.819'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NBL-1			1st Cond. 4,020	2nd Cond. 4,050	Stable Cond. 4,090	Ending Cond. 4,090
				1st pH 2.97	2nd pH 2.97	Stable pH 2.97	Ending pH 2.97
		185.40'	185.50'	1st Temp. 22.5	2nd Temp. 22.5	Stable Temp. 22.3	Ending Temp. 22.3
10-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1340	6.572'	6.256'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	504-B			1st Cond. 4,540	2nd Cond. 4,510	Stable Cond. 4,580	Ending Cond. 4,610
				1st pH 3.89	2nd pH 3.88	Stable pH 3.87	Ending pH 3.88
		168.30'		1st Temp. 19.3	2nd Temp. 19.2	Stable Temp. 19.0	Ending Temp. 18.7
10-12-10	Time	Bubbler Start	Bubbler End	Comments: Water level probe contacted with pump at 168.30' (no water reading) and very low volume is remaining in well.			
	1640	0.371					

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD BLANK			1st Cond. 26	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.14	2nd pH	Stable pH	Ending pH
				1st Temp. 23.7	2nd Temp.	Stable Temp.	Ending Temp.
10-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1927						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.90	10-12-10/0900	KC
7-Buffer	6.90	10-12-10/0849	KC

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1428	10-12-10/0901	KC

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	NBL-2	159.55'	160.00'	1st Cond. 2,900	2nd Cond. 3,260	Stable Cond. 3,370	Ending Cond. 3,300
				1st pH 6.40	2nd pH 6.44	Stable pH 6.48	Ending pH 6.59
				1st Temp. 16.1	2nd Temp. 15.4	Stable Temp. 15.0	Ending Temp. 14.9
	Time 1220	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	PB-3	183.30'		1st Cond. 2,520	2nd Cond. 3,140	Stable Cond. 3,210	Ending Cond. 3,340
				1st pH 6.54	2nd pH 6.69	Stable pH 6.92	Ending pH 7.12
				1st Temp. 18.0	2nd Temp. 18.0	Stable Temp. 16.7	Ending Temp. 15.5
	Time 1450	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	PB-2	183.75'		1st Cond. 4,710	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.29	2nd pH	Stable pH	Ending pH
				1st Temp. 20.4	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1455	Bubbler Start	Bubbler End	Comments: Extraction well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	PB-4	186.50'		1st Cond. 4,260	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 2.89	2nd pH	Stable pH	Ending pH
				1st Temp. 24.9	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1525	Bubbler Start	Bubbler End	Comments: Total depth is 189.40' (1.5' of mud material @ bottom), pump is set @187' water slowly discharged to surface @1545 and only 1 liter is collected @1600.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	RW-A	174.70'		1st Cond. 3,910	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.99	2nd pH	Stable pH	Ending pH
				1st Temp. 17.9	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1527	Bubbler Start	Bubbler End	Comments: Extraction well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-10	RW-11	168.50'		1st Cond. 3,870	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.97	2nd pH	Stable pH	Ending pH
				1st Temp. 17.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1600	Bubbler Start	Bubbler End	Comments: Extraction well.			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.93	10-13-10/0932	[illegible]
7-Buffer	6.93	10-13-10/0927	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
Fourth QUARTER **2010**
SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1440	10-13-10/0932	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-10	NW-3	179.69'		1st Cond. 3,690	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.49	2nd pH	Stable pH	Ending pH
				1st Temp. 13.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1133	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-10	NW-5	179.58'		1st Cond. 3,630	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.84	2nd pH	Stable pH	Ending pH
				1st Temp. 12.7	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1144	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-10	NW-2	187.80'		1st Cond. 3,540	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.50	2nd pH	Stable pH	Ending pH
				1st Temp. 16.1	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1156	Bubbler Start	Bubbler End	Comments: Extraction well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-10	NW-4	190.00'		1st Cond. 4,040	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.12	2nd pH	Stable pH	Ending pH
				1st Temp. 15.8	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1210	Bubbler Start	Bubbler End	Comments: Extraction well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-10	NW-1	200.00'		1st Cond. 4,190	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.17	2nd pH	Stable pH	Ending pH
				1st Temp. 19.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1225	Bubbler Start	Bubbler End	Comments: Extraction well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

APPENDIX B

QUARTERLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

JULY AND OCTOBER OF 2010

QA/QC CONTROLS

FIELD BLANKS

EPA-28 AND EPA-28 DUPLICATE FOR SW ALLUVIUM

EPA – 2 AND EPA – 2 DUPLICATE FOR ZONE – 1

711 AND 711 DUPLICATE FOR ZONE - 3

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070631-004
Client Sample ID: Field Blank

Report Date: 08/24/10
Collection Date: 07/14/10 11:50
DateReceived: 07/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	14	mg/L		5		A2320 B	07/23/10 21:09 / lr
Calcium	ND	mg/L		1		E200.7	07/28/10 20:12 / cp
Chloride	ND	mg/L		1		E300.0	07/20/10 12:08 / ljl
Magnesium	ND	mg/L		1		E200.7	07/28/10 20:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	08/09/10 11:47 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	07/26/10 18:29 / ljl
Potassium	ND	mg/L		1		E200.7	07/28/10 20:12 / cp
Sodium	4	mg/L		1		E200.7	07/28/10 20:12 / cp
Sulfate	ND	mg/L		1		E300.0	07/20/10 12:08 / ljl
PHYSICAL PROPERTIES							
pH	6.54	s.u.		0.01		A4500-H B	07/19/10 11:47 / lr
Solids, Total Dissolved TDS @ 180 C	16	mg/L		10		A2540 C	07/19/10 16:14 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/24/10 01:42 / sml
Beryllium	ND	mg/L		0.01		E200.8	07/24/10 01:42 / sml
Cadmium	ND	mg/L		0.005		E200.8	07/24/10 01:42 / sml
Cobalt	ND	mg/L		0.01		E200.8	07/24/10 01:42 / sml
Lead	ND	mg/L		0.05		E200.8	07/24/10 01:42 / sml
Manganese	ND	mg/L		0.01		E200.8	07/24/10 01:42 / sml
Molybdenum	ND	mg/L		0.1		E200.8	07/24/10 01:42 / sml
Nickel	ND	mg/L		0.05		E200.8	07/24/10 01:42 / sml
Uranium	ND	mg/L		0.0003		E200.8	07/24/10 01:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	07/24/10 01:42 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/28/10 15:12 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	07/27/10 16:04 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	-0.1	pCi/L	U			E900.1	08/04/10 17:23 / cgr
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	08/04/10 17:23 / cgr
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	08/04/10 17:23 / cgr
Lead 210	-0.9	pCi/L	U			E909.0M	07/27/10 08:53 / jgc
Lead 210 precision (±)	1.1	pCi/L				E909.0M	07/27/10 08:53 / jgc
Lead 210 MDC	1.9	pCi/L				E909.0M	07/27/10 08:53 / jgc
Radium 226	0.12	pCi/L				E903.0	08/03/10 01:51 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	08/03/10 01:51 / ep
Radium 226 MDC	0.11	pCi/L				E903.0	08/03/10 01:51 / ep
Radium 228	0.52	pCi/L	U			RA-05	07/28/10 17:36 / plj
Radium 228 precision (±)	0.80	pCi/L				RA-05	07/28/10 17:36 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	07/28/10 17:36 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070631-004
Client Sample ID: Field Blank

Report Date: 08/24/10
Collection Date: 07/14/10 11:50
DateReceived: 07/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.005	pCi/L	U			E907.0	07/21/10 16:18 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	07/21/10 16:18 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	07/21/10 16:18 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-19.9	%				Calculation	08/03/10 08:53 / kbh
Anions	0.255	meq/L				Calculation	08/03/10 08:53 / kbh
Cations	0.171	meq/L				Calculation	08/03/10 08:53 / kbh
Solids, Total Dissolved Calculated	14.0	mg/L				Calculation	08/03/10 08:53 / kbh
TDS Balance (0.80 - 1.20)	1.14					Calculation	08/03/10 08:53 / kbh
- The ion balance is not appropriate for near blank samples.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	1.15	ug/L		0.50		E624	07/20/10 21:17 / wen
Bromoform	0.89	ug/L		0.50		E624	07/20/10 21:17 / wen
Chlorodibromomethane	1.34	ug/L		0.50		E624	07/20/10 21:17 / wen
Chloroform	1.58	ug/L		0.50		E624	07/20/10 21:17 / wen
Trihalomethanes, Total	4.96	ug/L		0.50		E624	07/20/10 21:17 / wen
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		E624	07/20/10 21:17 / wen
Surr: Dibromofluoromethane	121	%REC	S	80-120		E624	07/20/10 21:17 / wen
Surr: p-Bromofluorobenzene	120	%REC		80-120		E624	07/20/10 21:17 / wen
Surr: Toluene-d8	107	%REC		80-120		E624	07/20/10 21:17 / wen

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070882-007
Client Sample ID: Field Blank

Report Date: 08/31/10
Collection Date: 07/20/10 16:00
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	9	mg/L		5		A2320 B	07/28/10 21:24 / lr
Calcium	ND	mg/L		1		E200.7	07/30/10 11:28 / cp
Chloride	ND	mg/L		1		E300.0	07/29/10 17:23 / ljl
Magnesium	ND	mg/L		1		E200.7	07/30/10 11:28 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	08/16/10 12:30 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/04/10 12:30 / ljl
Potassium	ND	mg/L		1		E200.7	07/30/10 11:28 / cp
Sodium	4	mg/L		1		E200.7	07/30/10 11:28 / cp
Sulfate	ND	mg/L		1		E300.0	07/29/10 17:23 / ljl
PHYSICAL PROPERTIES							
pH	7.03	s.u.		0.01		A4500-H B	07/23/10 16:27 / lr
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	H	10		A2540 C	07/28/10 16:04 / lr
- H-Original analysis was done within hold time. Data is from recheck analysis.							
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/31/10 02:13 / ts
Beryllium	ND	mg/L		0.01		E200.8	07/31/10 02:13 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/31/10 02:13 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/31/10 02:13 / ts
Lead	ND	mg/L		0.05		E200.8	07/31/10 02:13 / ts
Manganese	ND	mg/L		0.01		E200.8	07/31/10 02:13 / ts
Molybdenum	ND	mg/L		0.1		E200.8	07/31/10 02:13 / ts
Nickel	ND	mg/L		0.05		E200.8	07/31/10 02:13 / ts
Uranium	0.0004	mg/L		0.0003		E200.8	07/31/10 02:13 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/31/10 02:13 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/29/10 12:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/05/10 15:05 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.6	pCi/L				E900.1	08/16/10 14:22 / plj
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	08/16/10 14:22 / plj
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	08/16/10 14:22 / plj
Lead 210	-0.08	pCi/L	U			E909.0M	08/13/10 13:37 / jgc
Lead 210 precision (±)	2.1	pCi/L				E909.0M	08/13/10 13:37 / jgc
Lead 210 MDC	3.5	pCi/L				E909.0M	08/13/10 13:37 / jgc
Radium 226	-0.02	pCi/L	U			E903.0	08/10/10 16:08 / dm
Radium 226 precision (±)	0.11	pCi/L				E903.0	08/10/10 16:08 / dm
Radium 226 MDC	0.19	pCi/L				E903.0	08/10/10 16:08 / dm
Radium 228	-0.1	pCi/L	U			RA-05	08/05/10 13:20 / plj
Radium 228 precision (±)	0.59	pCi/L				RA-05	08/05/10 13:20 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	08/05/10 13:20 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070882-007
Client Sample ID: Field Blank

Report Date: 08/31/10
Collection Date: 07/20/10 16:00
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.06	pCi/L	U			E907.0	07/30/10 09:00 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	07/30/10 09:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	07/30/10 09:00 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.69	%				Calculation	08/03/10 11:27 / kbh
Anions	0.177	meq/L				Calculation	08/03/10 11:27 / kbh
Cations	0.171	meq/L				Calculation	08/03/10 11:27 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/28/10 03:41 / wen
Bromoform	0.50	ug/L		0.50		E624	07/28/10 03:41 / wen
Chlorodibromomethane	0.76	ug/L		0.50		E624	07/28/10 03:41 / wen
Chloroform	0.61	ug/L		0.50		E624	07/28/10 03:41 / wen
Trihalomethanes, Total	2.34	ug/L		0.50		E624	07/28/10 03:41 / wen
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		E624	07/28/10 03:41 / wen
Surr: Dibromofluoromethane	117	%REC		80-120		E624	07/28/10 03:41 / wen
Surr: p-Bromofluorobenzene	129	%REC	S	80-120		E624	07/28/10 03:41 / wen
Surr: Toluene-d8	106	%REC		80-120		E624	07/28/10 03:41 / wen

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10100375-004
Client Sample ID: Field Blank

Report Date: 11/22/10
Collection Date: 10/06/10 11:50
DateReceived: 10/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	10	mg/L		5		A2320 B	10/11/10 16:56 / jba
Calcium	ND	mg/L		1		E200.7	10/25/10 11:59 / cp
Chloride	1	mg/L		1		E300.0	10/20/10 16:42 / ljl
Magnesium	1	mg/L		1		E200.7	10/25/10 11:59 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/20/10 23:14 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/25/10 15:59 / dc
Potassium	ND	mg/L		1		E200.7	10/25/10 11:59 / cp
Sodium	5	mg/L		1		E200.7	10/25/10 11:59 / cp
Sulfate	ND	mg/L		1		E300.0	10/20/10 16:42 / ljl
PHYSICAL PROPERTIES							
pH	7.34	s.u.		0.01		A4500-H B	10/11/10 11:53 / lr
Solids, Total Dissolved TDS @ 180 C	12	mg/L		10		A2540 C	10/11/10 16:29 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/25/10 18:24 / sml
Beryllium	ND	mg/L		0.01		E200.8	10/25/10 18:24 / sml
Cadmium	ND	mg/L		0.005		E200.8	10/25/10 18:24 / sml
Cobalt	ND	mg/L		0.01		E200.8	10/25/10 18:24 / sml
Lead	ND	mg/L		0.05		E200.8	11/01/10 22:27 / sml
Manganese	ND	mg/L		0.01		E200.8	10/25/10 18:24 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/25/10 18:24 / sml
Nickel	ND	mg/L		0.05		E200.8	10/25/10 18:24 / sml
Uranium	ND	mg/L		0.0003		E200.8	11/08/10 15:47 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/25/10 18:24 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	11/16/10 15:28 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/09/10 13:55 / rdw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	-0.4	pCi/L	U			E900.1	11/17/10 12:28 / ep
Gross Alpha minus Rn & U Precision (±)	0.8	pCi/L				E900.1	11/17/10 12:28 / ep
Gross Alpha minus Rn & U MDC	1.5	pCi/L				E900.1	11/17/10 12:28 / ep
Lead 210	0.6	pCi/L	U			E909.0M	11/09/10 05:13 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0M	11/09/10 05:13 / eli-cs
Lead 210 MDC	2.1	pCi/L				E909.0M	11/09/10 05:13 / eli-cs
Radium 226	0.11	pCi/L	U			E903.0	11/03/10 00:48 / jb
Radium 226 precision (±)	0.10	pCi/L				E903.0	11/03/10 00:48 / jb
Radium 226 MDC	0.14	pCi/L				E903.0	11/03/10 00:48 / jb
Radium 228	1.2	pCi/L	U			RA-05	10/28/10 10:11 / jb
Radium 228 precision (±)	0.95	pCi/L				RA-05	10/28/10 10:11 / jb
Radium 228 MDC	1.5	pCi/L				RA-05	10/28/10 10:11 / jb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10100375-004
Client Sample ID: Field Blank

Report Date: 11/22/10
Collection Date: 10/06/10 11:50
DateReceived: 10/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.04	pCi/L	U			E907.0	10/21/10 09:30 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/21/10 09:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	10/21/10 09:30 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	25.3	%				Calculation	11/04/10 07:10 / kbh
Anions	0.218	meq/L				Calculation	11/04/10 07:10 / kbh
Cations	0.365	meq/L				Calculation	11/04/10 07:10 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	0.65	ug/L		0.50		E624	10/16/10 04:55 / jlr
Bromoform	0.50	ug/L		0.50		E624	10/16/10 04:55 / jlr
Chlorodibromomethane	0.78	ug/L		0.50		E624	10/16/10 04:55 / jlr
Chloroform	1.04	ug/L		0.50		E624	10/16/10 04:55 / jlr
Trihalomethanes, Total	2.97	ug/L		0.50		E624	10/16/10 04:55 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	10/16/10 04:55 / jlr
Surr: Dibromofluoromethane	108	%REC		80-120		E624	10/16/10 04:55 / jlr
Surr: p-Bromofluorobenzene	95.0	%REC		80-120		E624	10/16/10 04:55 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	10/16/10 04:55 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10100652-016
Client Sample ID: Field Blank

Report Date: 11/23/10
Collection Date: 10/12/10 19:27
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	11	mg/L		5		A2320 B	10/18/10 18:40 / jba
Calcium	ND	mg/L		1		E200.7	10/27/10 21:09 / cp
Chloride	1	mg/L		1		E300.0	10/28/10 07:12 / ljl
Magnesium	ND	mg/L		1		E200.7	10/27/10 21:09 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/29/10 15:26 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/04/10 15:42 / dc
Potassium	ND	mg/L		1		E200.7	10/27/10 21:09 / cp
Sodium	6	mg/L		1		E200.7	10/27/10 21:09 / cp
Sulfate	2	mg/L		1		E300.0	10/28/10 07:12 / ljl
PHYSICAL PROPERTIES							
pH	7.06	s.u.		0.01		A4500-H B	10/18/10 10:35 / lr
Solids, Total Dissolved TDS @ 180 C	18	mg/L		10		A2540 C	10/18/10 16:07 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/29/10 06:20 / sml
Beryllium	ND	mg/L		0.01		E200.7	10/30/10 01:39 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/29/10 06:20 / sml
Cobalt	ND	mg/L		0.01		E200.8	10/29/10 06:20 / sml
Lead	ND	mg/L		0.05		E200.8	10/29/10 06:20 / sml
Manganese	ND	mg/L		0.01		E200.8	10/29/10 06:20 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/29/10 06:20 / sml
Nickel	ND	mg/L		0.05		E200.8	10/29/10 06:20 / sml
Uranium	ND	mg/L		0.0003		E200.8	10/29/10 06:20 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/29/10 06:20 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	11/17/10 19:29 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/10 13:55 / rdw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	-0.1	pCi/L	U			E900.1	10/28/10 22:29 / ep
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	10/28/10 22:29 / ep
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	10/28/10 22:29 / ep
Lead 210	-0.3	pCi/L	U			E909.0M	11/06/10 07:24 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0M	11/06/10 07:24 / eli-cs
Lead 210 MDC	1.6	pCi/L				E909.0M	11/06/10 07:24 / eli-cs
Radium 226	-0.1	pCi/L	U			E903.0	11/08/10 14:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	11/08/10 14:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	11/08/10 14:14 / trs
Radium 228	0.08	pCi/L	U			RA-05	11/02/10 13:13 / plj
Radium 228 precision (±)	0.62	pCi/L				RA-05	11/02/10 13:13 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	11/02/10 13:13 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10100652-016
Client Sample ID: Field Blank

Report Date: 11/23/10
Collection Date: 10/12/10 19:27
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L	U			E907.0	10/26/10 08:45 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E907.0	10/26/10 08:45 / dmf
Thorium 230 MDC	0.3	pCi/L				E907.0	10/26/10 08:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
- See Case Narrative regarding Th230 analysis.							
DATA QUALITY							
A/C Balance (± 5)	4.39	%				Calculation	11/09/10 09:00 / kbh
Anions	0.272	meq/L				Calculation	11/09/10 09:00 / kbh
Cations	0.297	meq/L				Calculation	11/09/10 09:00 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	0.58	ug/L		0.50		E624	10/20/10 19:05 / jlr
Bromoform	0.72	ug/L		0.50		E624	10/20/10 19:05 / jlr
Chlorodibromomethane	0.83	ug/L		0.50		E624	10/20/10 19:05 / jlr
Chloroform	0.95	ug/L		0.50		E624	10/20/10 19:05 / jlr
Trihalomethanes, Total	3.08	ug/L		0.50		E624	10/20/10 19:05 / jlr
Surr: 1,2-Dichlorobenzene-d4	131	%REC	S	80-120		E624	10/20/10 19:05 / jlr
Surr: Dibromofluoromethane	99.0	%REC		80-120		E624	10/20/10 19:05 / jlr
Surr: p-Bromofluorobenzene	116	%REC		80-120		E624	10/20/10 19:05 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		E624	10/20/10 19:05 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10070623-013
Client Sample ID: EPA-28 Duplicate

Report Date: 08/31/10
Collection Date: 07/13/10 10:40
DateReceived: 07/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	732	mg/L		5		A2320 B	07/23/10 17:22 / lr
Calcium	549	mg/L		1		E200.7	07/28/10 18:39 / cp
Chloride	119	mg/L	D	4		E300.0	07/20/10 06:17 / ljl
Magnesium	488	mg/L		1		E200.7	07/28/10 18:39 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	08/03/10 14:23 / ljl
Nitrogen, Nitrate+Nitrite as N	27	mg/L	D	2		E353.2	07/26/10 15:16 / ljl
Potassium	11	mg/L		1		E200.7	07/28/10 18:39 / cp
Sodium	236	mg/L		1		E200.7	07/28/10 18:39 / cp
Sulfate	2910	mg/L	D	20		E300.0	07/20/10 06:17 / ljl
PHYSICAL PROPERTIES							
pH	7.28	s.u.		0.01		A4500-H B	07/16/10 17:12 / lr
Solids, Total Dissolved TDS @ 180 C	5100	mg/L	D	13		A2540 C	07/16/10 16:25 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/20/10 22:10 / sml
Beryllium	ND	mg/L		0.01		E200.8	07/20/10 22:10 / sml
Cadmium	ND	mg/L		0.005		E200.8	07/20/10 22:10 / sml
Cobalt	ND	mg/L		0.01		E200.8	07/20/10 22:10 / sml
Lead	ND	mg/L		0.05		E200.8	07/20/10 22:10 / sml
Manganese	0.53	mg/L		0.01		E200.8	07/20/10 22:10 / sml
Molybdenum	ND	mg/L		0.1		E200.8	07/20/10 22:10 / sml
Nickel	ND	mg/L		0.05		E200.8	07/20/10 22:10 / sml
Uranium	0.0407	mg/L		0.0003		E200.8	07/20/10 22:10 / sml
Vanadium	ND	mg/L		0.1		E200.8	07/20/10 22:10 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/28/10 13:51 / eli-h
Selenium-IV	0.004	mg/L		0.001		A3114 B	07/27/10 13:20 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.7	pCi/L	U			E900.1	08/03/10 11:43 / cgr
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	08/03/10 11:43 / cgr
Gross Alpha minus Rn & U MDC	0.7	pCi/L				E900.1	08/03/10 11:43 / cgr
Lead 210	1.1	pCi/L	U			E909.0M	07/25/10 06:09 / jgc
Lead 210 precision (±)	1.3	pCi/L				E909.0M	07/25/10 06:09 / jgc
Lead 210 MDC	2.2	pCi/L				E909.0M	07/25/10 06:09 / jgc
Radium 226	0.24	pCi/L				E903.0	08/02/10 23:57 / ep
Radium 226 precision (±)	0.14	pCi/L				E903.0	08/02/10 23:57 / ep
Radium 226 MDC	0.17	pCi/L				E903.0	08/02/10 23:57 / ep
Radium 228	0.87	pCi/L	U			RA-05	07/28/10 15:31 / plj
Radium 228 precision (±)	0.61	pCi/L				RA-05	07/28/10 15:31 / plj
Radium 228 MDC	0.95	pCi/L				RA-05	07/28/10 15:31 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10070623-013
Client Sample ID: EPA-28 Duplicate

Report Date: 08/31/10
Collection Date: 07/13/10 10:40
DateReceived: 07/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.02	pCi/L	U			E907.0	07/21/10 08:41 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	07/21/10 08:41 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	07/21/10 08:41 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	0.199	%				Calculation	07/29/10 09:39 / kbh
Anions	77.8	meq/L				Calculation	07/29/10 09:39 / kbh
Cations	78.1	meq/L				Calculation	07/29/10 09:39 / kbh
Solids, Total Dissolved Calculated	4810	mg/L				Calculation	07/29/10 09:39 / kbh
TDS Balance (0.80 - 1.20)	1.06					Calculation	07/29/10 09:39 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/20/10 01:20 / wen
Bromoform	ND	ug/L		0.50		E624	07/20/10 01:20 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	07/20/10 01:20 / wen
Chloroform	ND	ug/L		0.50		E624	07/20/10 01:20 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/20/10 01:20 / wen
Surr: 1,2-Dichlorobenzene-d4	113	%REC		80-120		E624	07/20/10 01:20 / wen
Surr: Dibromofluoromethane	110	%REC		80-120		E624	07/20/10 01:20 / wen
Surr: p-Bromofluorobenzene	118	%REC		80-120		E624	07/20/10 01:20 / wen
Surr: Toluene-d8	105	%REC		80-120		E624	07/20/10 01:20 / wen

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10100364-013
Client Sample ID: EPA-28 Duplicate

Report Date: 11/19/10
Collection Date: 10/05/10 10:50
DateReceived: 10/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	728	mg/L		5		A2320 B	10/08/10 23:57 / jba
Calcium	530	mg/L		1		E200.7	10/22/10 15:39 / cp
Chloride	116	mg/L	D	4		E300.0	10/20/10 03:51 / ljl
Magnesium	462	mg/L		1		E200.7	10/22/10 15:39 / cp
Nitrogen, Ammonia as N	0.05	mg/L		0.05		A4500-NH3 G	10/20/10 22:42 / ljl
Nitrogen, Nitrate+Nitrite as N	27	mg/L	D	2		E353.2	10/25/10 15:52 / dc
Potassium	11	mg/L		1		E200.7	10/22/10 15:39 / cp
Sodium	231	mg/L		1		E200.7	10/22/10 15:39 / cp
Sulfate	2960	mg/L	D	20		E300.0	10/20/10 03:51 / ljl
PHYSICAL PROPERTIES							
pH	7.65	s.u.		0.01		A4500-H B	10/08/10 17:50 / lr
Solids, Total Dissolved TDS @ 180 C	5180	mg/L	D	12		A2540 C	10/11/10 10:57 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/25/10 17:08 / sml
Beryllium	ND	mg/L		0.01		E200.8	10/25/10 17:08 / sml
Cadmium	ND	mg/L		0.005		E200.8	10/25/10 17:08 / sml
Cobalt	ND	mg/L		0.01		E200.8	10/25/10 17:08 / sml
Lead	ND	mg/L		0.05		E200.8	10/25/10 17:08 / sml
Manganese	0.64	mg/L		0.01		E200.8	10/25/10 17:08 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/25/10 17:08 / sml
Nickel	ND	mg/L		0.05		E200.8	10/25/10 17:08 / sml
Uranium	0.0453	mg/L		0.0003		E200.8	10/25/10 17:08 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/25/10 17:08 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	11/17/10 12:06 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/09/10 13:25 / rdw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.5	pCi/L	U			E900.1	10/19/10 00:55 / ep
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	10/19/10 00:55 / ep
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	10/19/10 00:55 / ep
Lead 210	2.2	pCi/L				E909.0M	10/31/10 01:00 / eli-cs
Lead 210 precision (±)	1	pCi/L				E909.0M	10/31/10 01:00 / eli-cs
Lead 210 MDC	1.6	pCi/L				E909.0M	10/31/10 01:00 / eli-cs
Radium 226	0.23	pCi/L				E903.0	11/02/10 17:44 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	11/02/10 17:44 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	11/02/10 17:44 / trs
Radium 228	1.3	pCi/L				RA-05	10/27/10 09:29 / plj
Radium 228 precision (±)	0.60	pCi/L				RA-05	10/27/10 09:29 / plj
Radium 228 MDC	0.91	pCi/L				RA-05	10/27/10 09:29 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10100364-013
Client Sample ID: EPA-28 Duplicate

Report Date: 11/19/10
Collection Date: 10/05/10 10:50
DateReceived: 10/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.03	pCi/L	U			E907.0	10/20/10 08:50 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	10/20/10 08:50 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	10/20/10 08:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.46	%				Calculation	11/03/10 07:42 / kbh
Anions	78.7	meq/L				Calculation	11/03/10 07:42 / kbh
Cations	74.9	meq/L				Calculation	11/03/10 07:42 / kbh
Solids, Total Dissolved Calculated	4800	mg/L				Calculation	11/03/10 07:42 / kbh
TDS Balance (0.80 - 1.20)	1.08					Calculation	11/03/10 07:42 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/12/10 04:24 / jlr
Bromoform	ND	ug/L		0.50		E624	10/12/10 04:24 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/12/10 04:24 / jlr
Chloroform	ND	ug/L		0.50		E624	10/12/10 04:24 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/12/10 04:24 / jlr
Surr: 1,2-Dichlorobenzene-d4	132	%REC	S	80-120		E624	10/12/10 04:24 / jlr
Surr: Dibromofluoromethane	103	%REC		80-120		E624	10/12/10 04:24 / jlr
Surr: p-Bromofluorobenzene	113	%REC		80-120		E624	10/12/10 04:24 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		E624	10/12/10 04:24 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Alluvium Monitor Wells					
Well ID:		EPA-28 Duplicate	EPA-28 Duplicate	EPA-28 Duplicate	EPA-28 Duplicate
Collection Date:		10/5/2010	7/13/2010	4/6/2010	1/5/2010
Receive Date:		10/8/2010	7/16/2010	4/12/2010	1/8/2010
Report Date:		11/19/2010	8/31/2010	5/10/2010	2/24/2010
Analyte	Units	C10100364-013	C10070623-013	C10040364-013	C10010243-013
Bicarbonate as HCO3	mg/L	728	732	770	742
Calcium	mg/L	530	549	540	549
Chloride	mg/L	116	119	121	124
Magnesium	mg/L	462	488	487	464
Nitrogen, Ammonia as N	mg/L	0.05	ND(0.05)	ND(0.05)	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	27	27	28.6	31
Potassium	mg/L	11	11	12	11
Sodium	mg/L	231	236	233	236
Sulfate	mg/L	2960	2910	2980	3070
pH	s.u.	7.65	7.28	7.06	7.06
Solids, Total Dissolved TDS @ 180 C	mg/L	5180	5100	5150	5160
Aluminum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	0.64	0.53	0.57	0.56
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.0453	0.0407	0.0416	0.0392
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	0.004	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.5	0.7	0.3	0.9
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.5	0.4	0.4
Gross Alpha minus Rn & U MDC	pCi/L	0.5	0.7	0.5	0.5
Lead 210	pCi/L	2.2	1.1	2.1	-0.2
Lead 210 precision (±)	pCi/L	1	1.3	1.9	2.3
Lead 210 MDC	pCi/L	1.6	2.2	3.1	3.8
Radium 226	pCi/L	0.23	0.24	0.53	0.15
Radium 226 precision (±)	pCi/L	0.12	0.14	0.14	0.13
Radium 226 MDC	pCi/L	0.15	0.17	0.1	0.18
Radium 228	pCi/L	1.3	0.87	1.6	1.5
Radium 228 precision (±)	pCi/L	0.60	0.61	0.65	0.81
Radium 228 MDC	pCi/L	0.91	0.95	0.97	1.2
Thorium 230	pCi/L	0.03	0.02	-0.02	-0.05
Thorium 230 precision (±)	pCi/L	0.06	0.06	0.05	0.06
Thorium 230 MDC	pCi/L	0.1	0.1	0.1	0.2
A/C Balance (± 5)	%	-2.46	0.199	-1.76	-2.12
Anions	meq/L	78.7	77.8	80.2	79.5
Cations	meq/L	74.9	78.1	77.4	76.2
Solids, Total Dissolved Calculated	mg/L	4800	4810	4900	4820
TDS Balance (0.80 - 1.20)		1.08	1.06	1.05	1.07
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070882-005
Client Sample ID: EPA-2 Duplicate

Report Date: 08/31/10
Collection Date: 07/19/10 12:30
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	332	mg/L		5		A2320 B	07/28/10 21:10 / lr
Calcium	380	mg/L		1		E200.7	07/30/10 11:20 / cp
Chloride	22	mg/L	D	2		E300.0	07/29/10 16:18 / ljl
Magnesium	181	mg/L		1		E200.7	07/30/10 11:20 / cp
Nitrogen, Ammonia as N	0.57	mg/L		0.05		A4500-NH3 G	08/16/10 12:26 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/04/10 12:17 / ljl
Potassium	6	mg/L		1		E200.7	07/30/10 11:20 / cp
Sodium	201	mg/L		1		E200.7	07/30/10 11:20 / cp
Sulfate	1880	mg/L	D	8		E300.0	07/29/10 16:18 / ljl
PHYSICAL PROPERTIES							
pH	7.26	s.u.		0.01		A4500-H B	07/23/10 16:40 / lr
Solids, Total Dissolved TDS @ 180 C	3000	mg/L		10		A2540 C	07/23/10 17:39 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/30/10 18:46 / ts
Beryllium	ND	mg/L		0.01		E200.8	07/30/10 18:46 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/30/10 18:46 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/30/10 18:46 / ts
Lead	ND	mg/L		0.05		E200.8	07/30/10 18:46 / ts
Manganese	1.58	mg/L		0.01		E200.8	07/30/10 18:46 / ts
Molybdenum	ND	mg/L		0.1		E200.7	08/02/10 20:08 / cp
Nickel	ND	mg/L		0.05		E200.8	07/30/10 18:46 / ts
Uranium	ND	mg/L		0.0003		E200.8	08/17/10 05:08 / sml
Vanadium	ND	mg/L		0.1		E200.8	07/30/10 18:46 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/29/10 11:47 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/05/10 15:00 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.5	pCi/L				E900.1	08/16/10 14:22 / plj
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	08/16/10 14:22 / plj
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	08/16/10 14:22 / plj
Lead 210	0.8	pCi/L	U			E909.0M	08/13/10 09:30 / jgc
Lead 210 precision (±)	2.1	pCi/L				E909.0M	08/13/10 09:30 / jgc
Lead 210 MDC	3.5	pCi/L				E909.0M	08/13/10 09:30 / jgc
Radium 226	1.2	pCi/L				E903.0	08/10/10 16:08 / dm
Radium 226 precision (±)	0.24	pCi/L				E903.0	08/10/10 16:08 / dm
Radium 226 MDC	0.19	pCi/L				E903.0	08/10/10 16:08 / dm
Radium 228	3.0	pCi/L				RA-05	08/05/10 13:20 / plj
Radium 228 precision (±)	0.72	pCi/L				RA-05	08/05/10 13:20 / plj
Radium 228 MDC	0.99	pCi/L				RA-05	08/05/10 13:20 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10070882-005
Client Sample ID: EPA-2 Duplicate

Report Date: 08/31/10
Collection Date: 07/19/10 12:30
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.1	pCi/L	U			E907.0	07/30/10 09:00 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	07/30/10 09:00 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	07/30/10 09:00 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.65	%				Calculation	08/03/10 11:17 / kbh
Anions	45.1	meq/L				Calculation	08/03/10 11:17 / kbh
Cations	42.8	meq/L				Calculation	08/03/10 11:17 / kbh
Solids, Total Dissolved Calculated	2830	mg/L				Calculation	08/03/10 11:17 / kbh
TDS Balance (0.80 - 1.20)	1.06					Calculation	08/03/10 11:17 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/28/10 02:31 / wen
Bromoform	ND	ug/L		0.50		E624	07/28/10 02:31 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	07/28/10 02:31 / wen
Chloroform	ND	ug/L		0.50		E624	07/28/10 02:31 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/28/10 02:31 / wen
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		E624	07/28/10 02:31 / wen
Surr: Dibromofluoromethane	125	%REC	S	80-120		E624	07/28/10 02:31 / wen
Surr: p-Bromofluorobenzene	130	%REC	S	80-120		E624	07/28/10 02:31 / wen
Surr: Toluene-d8	104	%REC		80-120		E624	07/28/10 02:31 / wen

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10100651-005
Client Sample ID: EPA-2 Duplicate

Report Date: 11/22/10
Collection Date: 10/11/10 12:11
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	348	mg/L		5		A2320 B	10/18/10 17:15 / jba
Calcium	364	mg/L		1		E200.7	10/27/10 18:51 / cp
Chloride	16	mg/L	D	2		E300.0	10/27/10 11:56 / ljl
Magnesium	162	mg/L		1		E200.7	10/27/10 18:51 / cp
Nitrogen, Ammonia as N	0.47	mg/L		0.05		A4500-NH3 G	10/27/10 12:15 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/04/10 14:32 / dc
Potassium	7	mg/L		1		E200.7	10/27/10 18:51 / cp
Sodium	215	mg/L		1		E200.7	10/27/10 18:51 / cp
Sulfate	1780	mg/L	D	8		E300.0	10/27/10 11:56 / ljl
PHYSICAL PROPERTIES							
pH	7.69	s.u.		0.01		A4500-H B	10/15/10 17:07 / lr
Solids, Total Dissolved TDS @ 180 C	2750	mg/L		10		A2540 C	10/15/10 16:00 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/29/10 07:55 / sml
Beryllium	ND	mg/L		0.01		E200.8	10/29/10 07:55 / sml
Cadmium	ND	mg/L		0.005		E200.8	10/29/10 07:55 / sml
Cobalt	ND	mg/L		0.01		E200.8	10/29/10 07:55 / sml
Lead	ND	mg/L		0.05		E200.8	10/29/10 07:55 / sml
Manganese	1.30	mg/L		0.01		E200.8	10/29/10 07:55 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/29/10 07:55 / sml
Nickel	ND	mg/L		0.05		E200.8	10/29/10 07:55 / sml
Uranium	0.0015	mg/L		0.0003		E200.8	11/08/10 16:44 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/29/10 07:55 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	11/17/10 17:18 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/10 12:43 / rdw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.3	pCi/L				E900.1	10/29/10 00:12 / ep
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	10/29/10 00:12 / ep
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	10/29/10 00:12 / ep
Lead 210	-0.2	pCi/L	U			E909.0M	11/10/10 20:11 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0M	11/10/10 20:11 / eli-cs
Lead 210 MDC	2.0	pCi/L				E909.0M	11/10/10 20:11 / eli-cs
Radium 226	1.6	pCi/L				E903.0	11/09/10 12:03 / jb
Radium 226 precision (±)	0.24	pCi/L				E903.0	11/09/10 12:03 / jb
Radium 226 MDC	0.12	pCi/L				E903.0	11/09/10 12:03 / jb
Radium 228	3.2	pCi/L				RA-05	11/04/10 16:17 / jb
Radium 228 precision (±)	0.83	pCi/L				RA-05	11/04/10 16:17 / jb
Radium 228 MDC	1.2	pCi/L				RA-05	11/04/10 16:17 / jb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10100651-005
Client Sample ID: EPA-2 Duplicate

Report Date: 11/22/10
Collection Date: 10/11/10 12:11
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.03	pCi/L	U			E907.0	11/08/10 08:57 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E907.0	11/08/10 08:57 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	11/08/10 08:57 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.49	%				Calculation	11/09/10 09:26 / kbh
Anions	43.2	meq/L				Calculation	11/09/10 09:26 / kbh
Cations	41.1	meq/L				Calculation	11/09/10 09:26 / kbh
Solids, Total Dissolved Calculated	2750	mg/L				Calculation	11/09/10 09:26 / kbh
TDS Balance (0.80 - 1.20)	1.00					Calculation	11/09/10 09:26 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/20/10 07:26 / jlr
Bromoform	ND	ug/L		0.50		E624	10/20/10 07:26 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/20/10 07:26 / jlr
Chloroform	ND	ug/L		0.50		E624	10/20/10 07:26 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/20/10 07:26 / jlr
Surr: 1,2-Dichlorobenzene-d4	136	%REC	S	80-120		E624	10/20/10 07:26 / jlr
Surr: Dibromofluoromethane	105	%REC		80-120		E624	10/20/10 07:26 / jlr
Surr: p-Bromofluorobenzene	116	%REC		80-120		E624	10/20/10 07:26 / jlr
Surr: Toluene-d8	95.0	%REC		80-120		E624	10/20/10 07:26 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 1 Monitor Wells					
Well ID:		EPA-2 Duplicate	EPA-2 Duplicate	EPA-2 Duplicate	EPA-2 Duplicate
Collection Date:		10/11/2010	7/19/2010	4/12/2010	1/11/2010
Receive Date:		10/15/2010	7/23/2010	4/16/2010	1/15/2010
Report Date:		11/22/2010	8/31/2010	5/13/2010	2/25/2010
Analyte	Units	C10100651-005	C10070882-005	C10040568-005	C10010509-005
Bicarbonate as HCO3	mg/L	348	332	350	345
Calcium	mg/L	364	380	368	384
Chloride	mg/L	16	22	16	18
Magnesium	mg/L	162	181	167	173
Nitrogen, Ammonia as N	mg/L	0.47	0.57	0.50	0.47
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.10)
Potassium	mg/L	7	6	7	7
Sodium	mg/L	215	201	209	204
Sulfate	mg/L	1780	1880	1850	1860
pH	s.u.	7.69	7.26	7.10	6.99
Solids, Total Dissolved TDS @ 180 C	mg/L	2750	3000	2850	2780
Aluminum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	1.30	1.58	1.50	1.47
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.0015	ND(0.0003)	0.0014	0.0012
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	0.002	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.3	2.5	1.7	1.6
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.6	0.5	0.6
Gross Alpha minus Rn & U MDC	pCi/L	0.6	0.5	0.5	0.6
Lead 210	pCi/L	-0.2	0.8	-1	0.8
Lead 210 precision (±)	pCi/L	1.2	2.1	2.3	2.4
Lead 210 MDC	pCi/L	2.0	3.5	3.9	3.9
Radium 226	pCi/L	1.6	1.2	1.3	1.2
Radium 226 precision (±)	pCi/L	0.24	0.24	0.25	0.23
Radium 226 MDC	pCi/L	0.12	0.19	0.16	0.15
Radium 228	pCi/L	3.2	3.0	4.7	3.4
Radium 228 precision (±)	pCi/L	0.83	0.72	1.0	0.80
Radium 228 MDC	pCi/L	1.2	0.99	1.4	1.1
Thorium 230	pCi/L	0.03	0.1	0.03	-0.01
Thorium 230 precision (±)	pCi/L	0.07	0.1	0.05	0.09
Thorium 230 MDC	pCi/L	0.1	0.2	0.09	0.2
A/C Balance (± 5)	%	-2.49	-2.65	-4.02	-2.77
Anions	meq/L	43.2	45.1	44.8	44.9
Cations	meq/L	41.1	42.8	41.4	42.5
Solids, Total Dissolved Calculated	mg/L	2750	2830	2820	2850
TDS Balance (0.80 - 1.20)		1.00	1.06	1.01	0.980
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10070881-004
Client Sample ID: 711 Duplicate

Report Date: 09/20/10
Collection Date: 07/19/10 15:40
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		5		A2320 B	07/28/10 19:28 / lr
Calcium	475	mg/L		1		E200.7	07/30/10 10:11 / cp
Chloride	16	mg/L	D	4		E300.0	07/29/10 10:10 / ljl
Magnesium	474	mg/L		1		E200.7	07/30/10 10:11 / cp
Nitrogen, Ammonia as N	0.72	mg/L		0.05		A4500-NH3 G	08/16/10 11:46 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	07/31/10 13:09 / ljl
Potassium	10	mg/L		1		E200.7	07/30/10 10:11 / cp
Sodium	97	mg/L		1		E200.7	07/30/10 10:11 / cp
Sulfate	3420	mg/L	D	20		E300.0	07/29/10 10:10 / ljl
PHYSICAL PROPERTIES							
pH	4.60	s.u.		0.01		A4500-H B	07/23/10 15:39 / lr
Solids, Total Dissolved TDS @ 180 C	5030	mg/L	D	11		A2540 C	07/23/10 17:36 / lr
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.7	08/02/10 17:55 / cp
Beryllium	ND	mg/L		0.01		E200.8	07/28/10 14:21 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/28/10 14:21 / ts
Cobalt	0.32	mg/L		0.01		E200.8	07/28/10 14:21 / ts
Lead	ND	mg/L		0.05		E200.8	07/28/10 14:21 / ts
Manganese	5.50	mg/L		0.01		E200.7	08/02/10 17:55 / cp
Molybdenum	ND	mg/L		0.1		E200.8	07/28/10 14:21 / ts
Nickel	0.26	mg/L		0.05		E200.8	07/28/10 14:21 / ts
Uranium	0.0154	mg/L		0.0003		E200.8	07/28/10 14:21 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/28/10 14:21 / ts
METALS - SPECIATED							
Arsenic-III	0.004	mg/L		0.001		E1632AM	07/28/10 15:36 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/05/10 14:22 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.5	pCi/L				E900.1	08/09/10 14:20 / cgr
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	08/09/10 14:20 / cgr
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	08/09/10 14:20 / cgr
Lead 210	1.8	pCi/L	U			E909.0M	08/12/10 10:50 / jgc
Lead 210 precision (±)	2.1	pCi/L				E909.0M	08/12/10 10:50 / jgc
Lead 210 MDC	3.5	pCi/L				E909.0M	08/12/10 10:50 / jgc
Radium 226	5.7	pCi/L				E903.0	08/09/10 22:31 / dm
Radium 226 precision (±)	0.45	pCi/L				E903.0	08/09/10 22:31 / dm
Radium 226 MDC	0.12	pCi/L				E903.0	08/09/10 22:31 / dm
Radium 228	7.4	pCi/L				RA-05	08/04/10 12:09 / plj
Radium 228 precision (±)	0.94	pCi/L				RA-05	08/04/10 12:09 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	08/04/10 12:09 / plj

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10070881-004
Client Sample ID: 711 Duplicate

Report Date: 09/20/10
Collection Date: 07/19/10 15:40
DateReceived: 07/23/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.07	pCi/L	U			E907.0	07/29/10 16:32 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	07/29/10 16:32 / dmf
Thorium 230 MDC	0.3	pCi/L				E907.0	07/29/10 16:32 / dmf
- See Case Narrative regarding Pb210 analysis.							
- See Case Narrative regarding Th230 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.26	%				Calculation	08/09/10 10:52 / kbh
Anions	71.7	meq/L				Calculation	08/09/10 10:52 / kbh
Cations	67.2	meq/L				Calculation	08/09/10 10:52 / kbh
Solids, Total Dissolved Calculated	4510	mg/L				Calculation	08/09/10 10:52 / kbh
TDS Balance (0.80 - 1.20)	1.12					Calculation	08/09/10 10:52 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/27/10 17:08 / wen
Bromoform	ND	ug/L		0.50		E624	07/27/10 17:08 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	07/27/10 17:08 / wen
Chloroform	ND	ug/L		0.50		E624	07/27/10 17:08 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/27/10 17:08 / wen
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		E624	07/27/10 17:08 / wen
Surr: Dibromofluoromethane	109	%REC		80-120		E624	07/27/10 17:08 / wen
Surr: p-Bromofluorobenzene	131	%REC	S	80-120		E624	07/27/10 17:08 / wen
Surr: Toluene-d8	104	%REC		80-120		E624	07/27/10 17:08 / wen

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10100652-004
Client Sample ID: 711 Duplicate

Report Date: 11/23/10
Collection Date: 10/11/10 15:15
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		5		A2320 B	10/16/10 00:33 / jba
Calcium	476	mg/L		1		E200.7	11/08/10 13:17 / cp
Chloride	13	mg/L	D	4		E300.0	10/27/10 13:58 / ljl
Magnesium	441	mg/L		1		E200.7	11/08/10 13:17 / cp
Nitrogen, Ammonia as N	0.74	mg/L		0.05		A4500-NH3 G	10/27/10 12:31 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/04/10 14:52 / dc
Potassium	10	mg/L		1		E200.7	11/08/10 13:17 / cp
Sodium	99	mg/L		1		E200.7	11/08/10 13:17 / cp
Sulfate	3640	mg/L	D	20		E300.0	10/27/10 13:58 / ljl
PHYSICAL PROPERTIES							
pH	4.19	s.u.		0.01		A4500-H B	10/18/10 09:20 / lr
Solids, Total Dissolved TDS @ 180 C	4500	mg/L	D	12		A2540 C	10/15/10 16:01 / lr
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	10/29/10 04:32 / sml
Beryllium	ND	mg/L		0.01		E200.7	10/30/10 00:34 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/29/10 04:32 / sml
Cobalt	0.31	mg/L		0.01		E200.8	10/29/10 04:32 / sml
Lead	ND	mg/L		0.05		E200.8	10/29/10 04:32 / sml
Manganese	5.33	mg/L		0.01		E200.8	10/29/10 04:32 / sml
Molybdenum	0.2	mg/L		0.1		E200.8	10/29/10 04:32 / sml
Nickel	0.27	mg/L		0.05		E200.8	10/29/10 04:32 / sml
Uranium	0.0131	mg/L		0.0003		E200.8	10/29/10 04:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/29/10 04:32 / sml
METALS - SPECIATED							
Arsenic-III	0.009	mg/L		0.001		E1632AM	11/17/10 18:08 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/10 13:13 / rdw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.4	pCi/L				E900.1	10/28/10 17:16 / ep
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	10/28/10 17:16 / ep
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	10/28/10 17:16 / ep
Lead 210	-0.6	pCi/L	U			E909.0M	11/11/10 06:22 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0M	11/11/10 06:22 / eli-cs
Lead 210 MDC	2.0	pCi/L				E909.0M	11/11/10 06:22 / eli-cs
Radium 226	5.9	pCi/L				E903.0	11/08/10 12:27 / trs
Radium 226 precision (±)	0.45	pCi/L				E903.0	11/08/10 12:27 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	11/08/10 12:27 / trs
Radium 228	8.6	pCi/L				RA-05	11/02/10 10:52 / plj
Radium 228 precision (±)	0.85	pCi/L				RA-05	11/02/10 10:52 / plj
Radium 228 MDC	0.89	pCi/L				RA-05	11/02/10 10:52 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10100652-004
Client Sample ID: 711 Duplicate

Report Date: 11/23/10
Collection Date: 10/11/10 15:15
DateReceived: 10/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.05	pCi/L	U			E907.0	10/25/10 17:01 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/25/10 17:01 / dmf
Thorium 230 MDC	0.3	pCi/L				E907.0	10/25/10 17:01 / dmf
- See Case Narrative regarding Pb210 analysis.							
- See Case Narrative regarding Th230 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.63	%				Calculation	11/09/10 08:54 / kbh
Anions	76.1	meq/L				Calculation	11/09/10 08:54 / kbh
Cations	69.4	meq/L				Calculation	11/09/10 08:54 / kbh
Solids, Total Dissolved Calculated	4680	mg/L				Calculation	11/09/10 08:54 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	11/09/10 08:54 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/19/10 17:00 / jlr
Bromoform	ND	ug/L		0.50		E624	10/19/10 17:00 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/19/10 17:00 / jlr
Chloroform	ND	ug/L		0.50		E624	10/19/10 17:00 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/19/10 17:00 / jlr
Surr: 1,2-Dichlorobenzene-d4	135	%REC	S	80-120		E624	10/19/10 17:00 / jlr
Surr: Dibromofluoromethane	92.0	%REC		80-120		E624	10/19/10 17:00 / jlr
Surr: p-Bromofluorobenzene	114	%REC		80-120		E624	10/19/10 17:00 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		E624	10/19/10 17:00 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		711 Duplicate	711 Duplicate	711 Duplicate	711 Duplicate
Collection Date:		10/11/2010	7/19/2010	4/12/2010	1/11/2010
Receive Date:		10/15/2010	7/23/2010	4/16/2010	1/15/2010
Report Date:		11/23/2010	9/20/2010	5/24/2010	2/25/2010
Analyte	Units	C10100852-004	C10070881-004	C10040567-003	C10010505-003
Bicarbonate as HCO3	mg/L	ND(5)	ND(5)	ND(5)	5
Calcium	mg/L	476	475	488	501
Chloride	mg/L	13	16	16	16
Magnesium	mg/L	441	474	484	484
Nitrogen, Ammonia as N	mg/L	0.74	0.72	0.57	0.41
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	0.1	0.11
Potassium	mg/L	10	10	10	11
Sodium	mg/L	99	97	102	101
Sulfate	mg/L	3640	3420	3460	3550
pH	s.u.	4.19	4.60	4.90	4.89
Solids, Total Dissolved TDS @ 180 C	mg/L	4500	5030	5000	4880
Aluminum	mg/L	0.2	0.2	0.2	0.2
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.31	0.32	0.30	0.31
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	5.33	5.50	5.50	5.36
Molybdenum	mg/L	0.2	ND(0.1)	ND(0.1)	0.1
Nickel	mg/L	0.27	0.26	0.28	0.29
Uranium	mg/L	0.0131	0.0154	0.0159	0.0149
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.009	0.004	0.007	0.002
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	5.4	5.5	5.6	5.2
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.9	0.9	0.9	0.8
Gross Alpha minus Rn & U MDC	pCi/L	0.5	0.6	0.5	0.4
Lead 210	pCi/L	-0.6	1.8	1.3	1.3
Lead 210 precision (±)	pCi/L	1.2	2.1	2.2	2.3
Lead 210 MDC	pCi/L	2.0	3.5	3.7	3.9
Radium 226	pCi/L	5.9	5.7	4.5	3.7
Radium 226 precision (±)	pCi/L	0.45	0.45	0.45	0.37
Radium 226 MDC	pCi/L	0.10	0.12	0.18	0.14
Radium 228	pCi/L	8.6	7.4	9.8	13
Radium 228 precision (±)	pCi/L	0.85	0.94	1.0	1.2
Radium 228 MDC	pCi/L	0.89	1.1	1.1	1.2
Thorium 230	pCi/L	0.05	-0.07	0.3	0.02
Thorium 230 precision (±)	pCi/L	0.1	0.1	0.2	0.05
Thorium 230 MDC	pCi/L	0.3	0.3	0.2	0.1
A/C Balance (± 5)	%	-4.63	-3.26	-2.57	-3.47
Anions	meq/L	76.1	71.7	72.5	74.5
Cations	meq/L	69.4	67.2	68.8	69.5
Solids, Total Dissolved Calculated	mg/L	4680	4510	4560	4680
TDS Balance (0.80 - 1.20)		0.960	1.12	1.10	1.04
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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

APPENDIX - C

QUARTERLY

CHAIN OF CUSTODY REPORT

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 5-7-2010 (Pg. 1 of 2)

Sample Description	Date	Time	Filter 0.45u		PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		NaOH		Preserved By		Analysis Required (For all samples listed)
509-D	7-12-10	0922	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			M. Chischilly		As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		1005															K, Mg, Mn, Na, NH_4, Ni,
803		1045															NO_3, Pb, Pb-210, pH, Se,
808		1120															SO_4, TDS, Th-230, U, V,
802		1200															Chloroform, Gross
801		1240															Alpha (-) U & Rn,
GW-2		1330															Combined Ra-226 & Ra-228, Al,
GW-1		1415															Co, Mo & Total Trihalomethanes (TTHMs)
632	↓	1500											N	A			
624	7-13-10	0850															
SBL-1		0930															
EPA-28		1010															Note: Preserved one 8 oz.
EPA-28 DUPLICATE		1040															sample with HCl
GW-3		1125															
EPA-25	↓	1218	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓		

Sampled by: Mel Chischilly Jr.
Dispatched by: Doris Yazzie
Carrier: UPS-Ground
8 iced cooler
Method of Shipment

Received by: Ronald B. Son
7-14-10 12:30
Date Time

7-12-10 1545
7-13-10 1530
Date Time

Lab Receipt Signature
7/14/10 9:20
Date Time

The above analysis to be performed is authorized by:
Signature
7-14-2010
Date

12°
ICE

C10070623

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-5-7-2010 (Pg. 2 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
627	7-13-10	1315	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
613	7-13-10	1405								K, Mg, Mn, Na, NH_4, Ni,
EPA-14	7-13-10	1450								NO_3, Pb, Pb-210, pH, Se,
604	7-14-10	0900								SO_4, TDS, Th-230, U, V,
515-A	7-14-10	0955								Chloroform, Gross
614	7-14-10	1100								Alpha (-) U & Rn,
FIELD BLANK	7-14-10	1150	↓	↓	↓	↓	↓		↓	Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N A		
										Note: Preserved one 8 oz. sample with HCl

Sampled by: Maj Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS-Ground
8 iced cooler
Method of Shipment

Received by Ronald B. Sam
7-14-10 12:30
Date Time

7-13-10 1530
7-14-10 1150
Date Time
[signature]
Lab Receipt Signature
7/16/10 920
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
7-14-2010
Date

C10070623

12° Ice

Workorder Receipt Checklist

United Nuclear Corporation

C10070623

Login completed by: Corinne Wagner

Date Received: 7/16/2010

Reviewed by: BL2000\tedwards

Received by: ckw

Reviewed Date: 7/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	12°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

C10070630

United Nuclear Corporation

Login completed by: Corinne Wagner

Date Received: 7/16/2010

Reviewed by: BL2000\tedwards

Received by: ckw

Reviewed Date: 7/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	12°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

United Nuclear Corporation

C10070631

Login completed by: Corinne Wagner

Date Received: 7/16/2010

Reviewed by: BL2000\tedwards

Received by: ckw

Reviewed Date: 7/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	12°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-6-7-2010 (PG. 1 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
EPA-4	7-19-10	0940	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-5		1035								K, Mg, Mn, Na, NH_4, Ni,
EPA-7		1115								NO_3, Pb, Pb-210, pH, Se,
EPA-2		1200								SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE		1230								Chloroform, Gross
517		1300								Alpha (-) U & Rn,
708		1400								Combined Ra-226 & Ra-228, Al,
711		1450								Co, Mo & Total Trihalomethanes (TTHMs)
711 DUPLICATE		1540						N A		
EPA-13	7-20-10	0850								
719		0925								
420		1025								Note: Preserved one 8 oz.
717		1100								sample with HCl
TWQ-142		1230								
NBL-1		1310								

Sampled by: Mel Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS- Ground
7 iced cooler
Method of Shipment

Received by Ronald B. Sam
7-21-10 11:42
Date Time

7-19-10 1615
7-20-10 1600
Date Time

Lab Receipt Signature
7/23/10 9:30
Date Time

The above analysis to be performed is authorized by:
Signature
7-21-2010
Date

8° 7°C ICL C0070882

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 6-7-2010 (PG. 2 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
504-B	7-20-10	1435	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
FIELD BLANK	7-20-10	1600	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		M. Chischilly	K, Mg, Mn, Na, NH_4, Ni,
										NO_3, Pb, Pb-210, pH, Se,
										SO_4, TDS, Th-230, U, V,
										Chloroform, Gross
										Alpha (-) U & Rn,
										Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N A		
										Note: Preserved one 8oz.
										Sample with HCl

Sampled by: Max Chischilly Jr.
Dispatched by: [illegible]
Carrier: UPS- Ground
7 iced cooler
Method of Shipment

Received by Ronald B. Sam
7-21-10 11:48
Date Time

7-20-10 1600
Date Time
7/23/10 930
Lab Receipt Signature
Date Time

The above analysis to be performed is authorized by
Signature
7-21-2010
Date

C10070882

Workorder Receipt Checklist

United Nuclear Corporation

C10070882

Login completed by: Hailey Ackerman

Date Received: 7/23/2010

Reviewed by: BL2000\tedwards

Received by: tae

Reviewed Date: 7/26/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	7°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

United Nuclear Corporation

C10070881

Login completed by: Edith McPike

Date Received: 7/23/2010

Reviewed by: BL2000\hackerman

Received by: tae

Reviewed Date: 7/26/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	7°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNC MINING & MILLING
(St. Rd. 566 - 21 Miles NE of Gallup)
P. O. Box 3077
Gallup, NM 87305-3077
(505) 722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

(307) 235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. EW- 3-7-2010

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required
NBL-2	7-20-10	1215		✓	✓				M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
PB-3	7-20-10	1355		✓	✓					
PB-4	7-20-10	1410		✓	✓					
PB-2	7-21-10	0935		✓	✓					
NW-2	7-21-10	0950		✓	✓					
NW-5	7-21-10	1005		✓	✓					
NW-3	7-21-10	1020		✓	✓					
RW-A	7-21-10	1030		✓	✓					
NW-4	7-21-10	1045		✓	✓					
NW-1	7-21-10	1100		✓	✓					

Sampled By: Mel Chischilly Jr.
Dispatched By: [signature]
Carrier: UPS- Ground
7 iced cooler
Method of Shipment

Received By: Ronald B. Sam
7-21-10 11:42
Date Time

7-20-10 1600
7-21-10 1115
Date Time

Lab Receipt Signature: Labida Edwards
7/23/10 09:30
Date Time

The above analysis to be performed is authorized by:
Signature
7-21-2010
Date

C00708500

Workorder Receipt Checklist

United Nuclear Corporation

C10070880

Login completed by: Halley Ackerman

Date Received: 7/23/2010

Reviewed by: BL2000\tedwards

Received by: tae

Reviewed Date: 7/26/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	7°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 7-9-2010

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	HCl	Preserved By	Analysis Required (For all samples listed)
DOMESTIC	9-20-10	1358	✓	✓	✓	✓	✓	✓	M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
WATER WELL										K, Mg, Mn, Na, NH_4, Ni,
										NO_3, Pb, Pb-210, pH, Se,
										SO_4, TDS, Th-230, U, V,
										Chloroform, Gross
										Alpha (-) U & Rn,
										Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
										Note: Please report result
										as soon as possible
										(Rush Priority).

Sampled by: Mel Chischilly Jr.

Dispatched by: [signature]

Carrier: FedEx-Priority Overnight

1 iced cooler
Method of Shipment

Received by Ronald B. Sam
9-21-10 Date
12:10 Time

9-20-10 Date
1400 Time

[signature]
Lab Receipt Signature

9/22/10 Date
09:00 Time

The above analysis to be performed is authorized by:

[signature]
Signature

9-21-2010
Date

Express
5°C
Seals

Energy Laboratories Inc
Workorder Receipt Checklist

C10090864

United Nuclear Corporation

Login completed by: Corinne Wagner
Reviewed by: BL2000\tedwards
Reviewed Date: 9/22/2010

Date Received: 9/22/2010
Received by: ha
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	5°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 8-10-2010 (PG. 1 OF 2)

Sample Description	Date	Time	Filter 0.45u		PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		HCl		Preserved By	Analysis Required (For all samples listed)
509-D	10-4-10	0922	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		1002														K, Mg, Mn, Na, NH_4, Ni,
803		1036														NO_3, Pb, Pb-210, pH, Se,
808		1112														SO_4, TDS, Th-230, U, V,
802		1150														Chloroform, Gross
801		1240														Alpha (-) U & Rn,
GW-2		1325														Combined Ra-226 & Ra-228, Al,
GW-1		1412														Co, Mo & Total Trihalomethanes (TTHMs)
632		1500														
624	10-5-10	0855														
SBL-1		0938														
EPA-28		1022														
EPA-28 DUPLICATE		1050														
613		1130														
EPA-14		1210														

Sampled by: May Chischilly Jr.
Dispatched by: [illegible]
Carrier: UPS - Ground
9 iced cooler
Method of Shipment

Received by Ronald B. Sam
10-6-10 12:50
Date Time

10-4-10 1600
10-5-10 1600
Date Time

Lab Receipt Signature
10/8/10 930
Date Time

3° Ice

The above analysis to be performed is authorized by:
May Chischilly Jr.
Signature
10-6-2010
Date

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 8-10-2010 (PG. 2 OF 2)

Sample Description	Date	Time	Filter 0.45u		PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		HCl		Preserved By	Analysis Required (For all samples listed)
GW-3	10-5-10	1300	✓	MC	✓	MC	✓	MC	✓	MC	✓	MC	✓	MC	M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-25	10-5-10	1355														K, Mg, Mn, Na, NH_4, Ni,
627	10-5-10	1450														NO_3, Pb, Pb-210, pH, Se,
614	10-6-10	0900														SO_4, TDS, Th-230, U, V,
515-A	10-6-10	0940														Chloroform, Gross
604	10-6-10	1030														Alpha (-) U & Rn,
FIELD BLANK	10-6-10	1150														Combined Ra-226 & Ra-228, Al,
																Co, Mo & Total Trihalomethanes (TTHMs)

Sampled by: Mel Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS-Ground
9 iced cooler
Method of Shipment

Received by Ronald B. Sam
10-6-10 Date
12:50 Time

10-5-10 1600
10-6-10 1150
Date Time
[signature]
Lab Receipt Signature
10/6/10 930
Date Time

The above analysis to be performed is authorized by:
Mel Chischilly Jr.
Signature
10-6-2010
Date

3° Ice

Workorder Receipt Checklist

United Nuclear Corporation

C10100364

Login completed by: Corinne Wagner

Date Received: 10/8/2010

Reviewed by: BL2000\kschroeder

Received by: ckw

Reviewed Date: 10/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

United Nuclear Corporation

C10100372

Login completed by: Corinne Wagner

Date Received: 10/8/2010

Reviewed by: BL2000\kschroeder

Received by: ckw

Reviewed Date: 10/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

United Nuclear Corporation

C10100375

Login completed by: Corinne Wagner

Date Received: 10/8/2010

Reviewed by: BL2000\kschroeder

Received by: ckw

Reviewed Date: 10/19/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 9-10-2010 (PG. 1 OF 2)

Sample Description	Date	Time	Filter 0.45u		PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		HCl		Preserved By		Analysis Required (For all samples listed)
EPA-4	10-11-10	0906	✓	m	✓	m	✓	m	✓	m	✓	m	✓	m	M. Chischilly		As, Be, Ca, Cd, Cl, HCO_3,
EPA-5	↓	1007	↓		↓		↓		↓		↓		↓		↓		K, Mg, Mn, Na, NH_4, Ni,
EPA-7	↓	1050	↓		↓		↓		↓		↓		↓		↓		NO_3, Pb, Pb-210, pH, Se,
EPA-2	↓	1140	↓		↓		↓		↓		↓		↓		↓		SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE	↓	1211	↓		↓		↓		↓		↓		↓		↓		Chloroform, Gross
517	↓	1245	↓		↓		↓		↓		↓		↓		↓		Alpha (-) U & Rn,
708	↓	1351	↓		↓		↓		↓		↓		↓		↓		Combined Ra-226 & Ra-228, Al,
711	↓	1438	↓		↓		↓		↓		↓		↓		↓		Co, Mo & Total Trihalomethanes (TTHMs)
711 DUPLICATE	↓	1515	↓		↓		↓		↓		↓		↓		↓		
EPA-13	↓	1545	↓		↓		↓		↓		↓		↓		↓		Line item# 6-14
719	10-12-10	0913	↓		↓		↓		↓		↓		↓		↓		are on a separate
420	↓	1013	↓		↓		↓		↓		↓		↓		↓		workorder
717	↓	1055	↓		↓		↓		↓		↓		↓		↓		TAE 10/15/10
NBL-2	↓	1220	↓		↓		↓		↓		↓		↓		↓		
TWQ-142	↓	1258	↓		↓		↓		↓		↓		↓		↓		

Sampled by: May Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS- Ground
8 iced cooler
Method of Shipment

Received by Ronald B. Sam
10-13-10 1:05
Date Time

10-11-10 1600
10-12-10 1700
Date Time

Lab Receipt Signature: Tabitha Edwards
10-15-10 930
Date Time

The above analysis to be performed is authorized by:
Signature: [signature]
10-13-2010
Date

2 ice seals
UPS ARSCRD

C10100651

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-8851

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-9-10-2010 (PG. 2 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	HCl	Preserved By	Analysis Required (For all samples listed)
NBL-1	10-12-10	1340	✓ ~~✓~~	✓ ~~✓~~	✓ ~~✓~~	✓ ~~✓~~	✓ ~~✓~~	✓ ~~✓~~	M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
PB-3	↓	1450	↓	↓	↓	↓	↓	↓	↓	K, Mg, Mn, Na, NH_4, Ni,
PB-2	↓	1455	↓	↓	↓	↓	↓	↓	↓	NO_3, Pb, Pb-210, pH, Se,
RW-A	↓	1527	↓	↓	↓	↓	↓	↓	↓	SO_4, TDS, Th-230, U, V,
RW-11	↓	1600	↓	↓	↓	↓	↓	↓	↓	Chloroform, Gross
SW-B	↓	1640	↓	↓	↓	↓	↓	↓	↓	Alpha (-) U & Rn,
FIELD BLANK	↓	1927	↓	↓	↓	↓	↓	↓	↓	Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)

Sampled by: Mac Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS - Ground
8 iced cooler
Method of Shipment

Received by Ronald M. Sam 10-12-10 1700
Date Time
10-13-10 1:05
Date Time
Lab Receipt Signature
10/15/10 0930
Date Time

The above analysis to be performed is authorized by:
Signature
10-13-2010
Date

Workorder Receipt Checklist

United Nuclear Corporation

C10100651

Login completed by: Tabitha Edwards
Date Received: 10/15/2010
Reviewed by: BL2000\kschroeder
Received by: tae
Reviewed Date: 10/20/2010
Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Workorder Receipt Checklist

United Nuclear Corporation

C10100652

Login completed by: Tabitha Edwards

Date Received: 10/15/2010

Reviewed by: BL2000\kschroeder

Received by: tae

Reviewed Date: 10/20/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNC MINING & MILLING
(St. Rd. 566 - 21 Miles NE of Gallup)
P. O. Box 3077
Gallup, NM 87305-3077
(505) 722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

(307) 235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. EW- 4-10-2010

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required
PB-4	10-12-10	1525		✓					M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
NW-3	10-13-10	1133								
NW-5	10-13-10	1144								
NW-2	10-13-10	1156								
NW-4	10-13-10	1210								
NW-1	10-13-10	1225								

Sampled By: Max Chischilly Jr.
Dispatched By: [signature]
Carrier: UPS- Ground
Method of Shipment: iced cooler

Received By: Ronald B. Sam
10-13-10 1:05
Date Time

10-12-10 1700
10-13-10 1245
Date Time

Lab Receipt Signature: Sabrina Edwards
10/15/10 0930
Date Time

The above analysis to be performed is authorized by: [signature]
Signature
10-13-2010
Date

C10100659

Workorder Receipt Checklist

United Nuclear Corporation

C10100659

Login completed by: Tabitha Edwards

Date Received: 10/15/2010

Reviewed by: BL2000\kschroeder

Received by: tae

Reviewed Date: 10/20/2010

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

APPENDIX - D (1 OF 2)

THIRD QUARTER

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

ANALYTICAL SUMMARY REPORT

August 31, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070623 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corporation on 7/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070623-001	509-D	07/12/10 09:22	07/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10070623-002	EPA-23	07/12/10 10:05	07/16/10	Aqueous	Same As Above
C10070623-003	803	07/12/10 10:45	07/16/10	Aqueous	Same As Above
C10070623-004	808	07/12/10 11:20	07/16/10	Aqueous	Same As Above
C10070623-005	802	07/12/10 12:00	07/16/10	Aqueous	Same As Above
C10070623-006	801	07/12/10 12:40	07/16/10	Aqueous	Same As Above
C10070623-007	GW-2	07/12/10 13:30	07/16/10	Aqueous	Same As Above
C10070623-008	GW-1	07/12/10 14:15	07/16/10	Aqueous	Same As Above
C10070623-009	632	07/12/10 15:00	07/16/10	Aqueous	Same As Above
C10070623-010	624	07/13/10 08:50	07/16/10	Aqueous	Same As Above
C10070623-011	SBL-1	07/13/10 09:30	07/16/10	Aqueous	Same As Above
C10070623-012	EPA-28	07/13/10 10:10	07/16/10	Aqueous	Same As Above
C10070623-013	EPA-28 Duplicate	07/13/10 10:40	07/16/10	Aqueous	Same As Above
C10070623-014	GW-3	07/13/10 11:25	07/16/10	Aqueous	Same As Above
C10070623-015	EPA-25	07/13/10 12:18	07/16/10	Aqueous	Same As Above
C10070623-016	627	07/13/10 13:15	07/16/10	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.08.31 12:27:59 -06:00

CLIENT: United Nuclear Corporation
Project: Alluvium
Sample Delivery Group: C10070623

Report Date: 08/31/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R135260
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100723A				07/23/10 14:08
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100723A				07/23/10 14:24
Alkalinity, Total as CaCO3		208	mg/L	5.0	104	90	110			
Sample ID: C10070623-002ADUP	2	Sample Duplicate				Run: MANTECH_100723A				07/23/10 15:14
Alkalinity, Total as CaCO3		1070	mg/L	5.0				0.1	10	
Bicarbonate as HCO3		1300	mg/L	5.0				0.1	10	
Sample ID: C10070628-001AMS		Sample Matrix Spike				Run: MANTECH_100723A				07/23/10 18:17
Alkalinity, Total as CaCO3		274	mg/L	5.0	104	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100716_1_SLDS-TDS-W	
Sample ID: MBLK1_100716		Method Blank				Run: BAL-1_100716A			07/16/10 16:14	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100716		Laboratory Control Sample				Run: BAL-1_100716A			07/16/10 16:14	
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C10070623-002AMS		Sample Matrix Spike				Run: BAL-1_100716A			07/16/10 16:18	
Solids, Total Dissolved TDS @ 180 C		7270	mg/L	12	99	90	110			
Sample ID: C10070623-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100716A			07/16/10 16:18	
Solids, Total Dissolved TDS @ 180 C		7280	mg/L	13	99	90	110	0.1	10	
Sample ID: C10070623-012AMS		Sample Matrix Spike				Run: BAL-1_100716A			07/16/10 16:21	
Solids, Total Dissolved TDS @ 180 C		8080	mg/L	14	100	90	110			
Sample ID: C10070623-012AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100716A			07/16/10 16:24	
Solids, Total Dissolved TDS @ 180 C		8020	mg/L	14	97	90	110	0.8	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 26734
Sample ID: MB-26734		Method Blank				Run: CVAA-C202_100727A				07/27/10 11:04
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26734		Laboratory Control Sample				Run: CVAA-C202_100727A				07/27/10 11:06
Selenium-IV		0.0491	mg/L	0.0010	98	90	110			
Sample ID: C10070623-001CMS		Sample Matrix Spike				Run: CVAA-C202_100727A				07/27/10 11:13
Selenium-IV		0.0488	mg/L	0.0010	98	85	115			
Sample ID: C10070623-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100727A				07/27/10 11:16
Selenium-IV		0.0500	mg/L	0.0010	100	85	115	2.4	10	
Method: A3114 B										Batch: 26734
Sample ID: MB-26734		Method Blank				Run: CVAA-C202_100727B				07/27/10 12:55
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26734		Laboratory Control Sample				Run: CVAA-C202_100727B				07/27/10 12:57
Selenium-IV		0.0492	mg/L	0.0010	98	90	110			
Sample ID: C10070623-011CMS		Sample Matrix Spike				Run: CVAA-C202_100727B				07/27/10 13:13
Selenium-IV		0.0437	mg/L	0.0010	85	85	115			
Sample ID: C10070623-011CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100727B				07/27/10 13:16
Selenium-IV		0.0438	mg/L	0.0010	85	85	115	0.3	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100716A		
Sample ID: ICV1_100716_1		Initial Calibration Verification Standard								07/16/10 15:01
pH		6.75	s.u.	0.010	98	98	102			
Method: A4500-H B								Batch: 100716_1_PH-W_555A-2		
Sample ID: C10070623-009ADUP		Sample Duplicate				Run: ORION555A-2_100716A				07/16/10 16:47
pH		7.02	s.u.	0.010				0.4	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R135643
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_100803A			08/03/10 12:53	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_100803A			08/03/10 12:55	
Nitrogen, Ammonia as N		18.0	mg/L	0.50	90	80	120			
Sample ID: C10070623-008DMS	Sample Matrix Spike					Run: TECHNICON_100803A			08/03/10 14:09	
Nitrogen, Ammonia as N		3.09	mg/L	0.050	111	80	120			
Sample ID: C10070623-008DMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_100803A			08/03/10 14:11	
Nitrogen, Ammonia as N		3.10	mg/L	0.050	111	80	120	0.3	20	
Method: A4500-NH3 G										Batch: R135849
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_100809A			08/09/10 11:23	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_100809A			08/09/10 11:25	
Nitrogen, Ammonia as N		19.0	mg/L	0.50	95	80	120			
Sample ID: C10070631-001DMS	Sample Matrix Spike					Run: TECHNICON_100809A			08/09/10 11:37	
Nitrogen, Ammonia as N		3.17	mg/L	0.050	144	80	120			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Sample ID: C10070631-001DMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_100809A			08/09/10 11:39	
Nitrogen, Ammonia as N		2.92	mg/L	0.050	131	80	120	8.2	20	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Method: A4500-NH3 G										Batch: R136617
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_100830A			08/30/10 11:06	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_100830A			08/30/10 11:08	
Nitrogen, Ammonia as N		18.7	mg/L	0.50	94	80	120			
Sample ID: C10080731-001DMS	Sample Matrix Spike					Run: TECHNICON_100830A			08/30/10 11:20	
Nitrogen, Ammonia as N		2.13	mg/L	0.050	105	80	120			
Sample ID: C10080731-001DMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_100830A			08/30/10 11:22	
Nitrogen, Ammonia as N		2.12	mg/L	0.050	105	80	120	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R64014	
Sample ID: ICB_13r		Method Blank				Run: SUB-H64014			07/27/10 16:34	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100727-LFB		Laboratory Fortified Blank				Run: SUB-H64014			07/27/10 16:40	
Arsenic-III		60.9	ug/L	5.0	122	55	146			
Sample ID: C10070623-003E		Sample Matrix Spike				Run: SUB-H64014			07/27/10 17:05	
Arsenic-III		63.1	ug/L	5.0	126	55	146			
Sample ID: C10070623-003E		Sample Matrix Spike Duplicate				Run: SUB-H64014			07/27/10 17:11	
Arsenic-III		61.4	ug/L	5.0	123	55	146	2.7	20	
Sample ID: C10070623-005E		Sample Duplicate				Run: SUB-H64014			07/27/10 17:30	
Arsenic-III		1.66	ug/L	5.0					20	
Method: E1632AM									Batch: H_R64046	
Sample ID: ICB_13r		Method Blank				Run: SUB-H64046			07/28/10 13:13	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100728-LFB		Laboratory Control Sample				Run: SUB-H64046			07/28/10 13:20	
Arsenic-III		51.1	ug/L	5.0	102	90	110			
Sample ID: H10070294-011E MS		Sample Matrix Spike				Run: SUB-H64046			07/28/10 13:32	
Arsenic-III		51.8	ug/L	5.0	104	55	146			
Sample ID: H10070294-011E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64046			07/28/10 13:38	
Arsenic-III		52.9	ug/L	5.0	106	55	146	2.1	20	
Sample ID: H10070294-015E DUP		Sample Duplicate				Run: SUB-H64046			07/28/10 14:09	
Arsenic-III		ND	ug/L	5.0					20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135436
Sample ID: MB-100728A	4	Method Blank				Run: ICP2-C_100728A				07/28/10 12:44
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100728A	4	Laboratory Fortified Blank				Run: ICP2-C_100728A				07/28/10 12:48
Calcium		51.1	mg/L	0.50	102	85	115			
Magnesium		50.6	mg/L	0.50	101	85	115			
Potassium		48.2	mg/L	0.50	96	85	115			
Sodium		49.6	mg/L	0.50	99	85	115			
Sample ID: C10070623-008BMS2	4	Sample Matrix Spike				Run: ICP2-C_100728A				07/28/10 17:59
Calcium		1280	mg/L	2.3	102	70	130			
Magnesium		1220	mg/L	1.0	100	70	130			
Potassium		479	mg/L	1.0	92	70	130			
Sodium		907	mg/L	2.9	98	70	130			
Sample ID: C10070623-008BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100728A				07/28/10 18:03
Calcium		1290	mg/L	2.3	104	70	130	0.8	20	
Magnesium		1230	mg/L	1.0	101	70	130	0.5	20	
Potassium		481	mg/L	1.0	93	70	130	0.3	20	
Sodium		916	mg/L	2.9	100	70	130	1	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R135087
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_100720A			07/20/10 13:20	
Aluminum		0.0003	mg/L	0.0001						
Beryllium		ND	mg/L	3E-05						
Cadmium		2E-05	mg/L	1E-05						
Cobalt		2E-05	mg/L	2E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_100720A			07/20/10 13:27	
Aluminum		0.053	mg/L	0.0010	105	85	115			
Beryllium		0.053	mg/L	0.0010	106	85	115			
Cadmium		0.053	mg/L	0.0010	106	85	115			
Cobalt		0.052	mg/L	0.0010	103	85	115			
Lead		0.054	mg/L	0.0010	107	85	115			
Manganese		0.052	mg/L	0.0010	103	85	115			
Molybdenum		0.053	mg/L	0.0010	106	85	115			
Nickel		0.053	mg/L	0.0010	105	85	115			
Uranium		0.054	mg/L	0.00030	107	85	115			
Vanadium		0.053	mg/L	0.0010	106	85	115			
Sample ID: C10070623-013CMS4	10	Sample Matrix Spike				Run: ICPMS2-C_100720A			07/20/10 22:17	
Aluminum		0.314	mg/L	0.10	125	70	130			
Beryllium		0.229	mg/L	0.010	92	70	130			
Cadmium		0.252	mg/L	0.010	101	70	130			
Cobalt		0.238	mg/L	0.010	94	70	130			
Lead		0.262	mg/L	0.050	104	70	130			
Manganese		0.753	mg/L	0.010	89	70	130			
Molybdenum		0.271	mg/L	0.10	108	70	130			
Nickel		0.258	mg/L	0.050	97	70	130			
Uranium		0.302	mg/L	0.00030	105	70	130			
Vanadium		0.250	mg/L	0.10	100	70	130			
Sample ID: C10070623-013CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100720A			07/20/10 22:51	
Aluminum		0.265	mg/L	0.10	106	70	130	17	20	
Beryllium		0.244	mg/L	0.010	98	70	130	6.6	20	
Cadmium		0.262	mg/L	0.010	105	70	130	3.7	20	
Cobalt		0.248	mg/L	0.010	98	70	130	4	20	
Lead		0.270	mg/L	0.050	108	70	130	3.3	20	
Manganese		0.781	mg/L	0.010	100	70	130	3.7	20	
Molybdenum		0.278	mg/L	0.10	111	70	130	2.7	20	
Nickel		0.265	mg/L	0.050	100	70	130	2.6	20	
Uranium		0.314	mg/L	0.00030	109	70	130	3.9	20	
Vanadium		0.262	mg/L	0.10	105	70	130	4.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26729
Sample ID: MB-26729	9	Method Blank				Run: ICPMS2-C_100722A				07/22/10 18:12
Aluminum		0.03	mg/L	0.01						
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		ND	mg/L	5E-05						
Manganese		0.0002	mg/L	9E-05						
Molybdenum		0.0003	mg/L	0.0001						
Nickel		ND	mg/L	8E-05						
Vanadium		0.002	mg/L	0.0005						
Sample ID: LCS3-26729	9	Laboratory Control Sample				Run: ICPMS2-C_100722A				07/22/10 18:19
Aluminum		2.46	mg/L	0.10	97	85	115			
Beryllium		0.248	mg/L	0.010	99	85	115			
Cadmium		0.269	mg/L	0.010	108	85	115			
Cobalt		0.530	mg/L	0.010	106	85	115			
Lead		0.565	mg/L	0.050	113	85	115			
Manganese		2.62	mg/L	0.010	105	85	115			
Molybdenum		0.557	mg/L	0.10	111	85	115			
Nickel		0.507	mg/L	0.050	101	85	115			
Vanadium		0.534	mg/L	0.10	106	85	115			
Sample ID: C10070623-014CMS3	9	Sample Matrix Spike				Run: ICPMS2-C_100722A				07/22/10 20:47
Aluminum		2.60	mg/L	0.10	104	70	130			
Beryllium		0.252	mg/L	0.010	101	70	130			
Cadmium		0.283	mg/L	0.010	113	70	130			
Cobalt		0.593	mg/L	0.010	116	70	130			
Lead		0.612	mg/L	0.050	122	70	130			
Manganese		4.59	mg/L	0.010	105	70	130			
Molybdenum		0.606	mg/L	0.10	121	70	130			
Nickel		0.552	mg/L	0.050	106	70	130			
Vanadium		0.607	mg/L	0.10	121	70	130			
Sample ID: C10070623-014CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100722A				07/22/10 20:54
Aluminum		2.57	mg/L	0.10	103	70	130	1	20	
Beryllium		0.253	mg/L	0.010	101	70	130	0.8	20	
Cadmium		0.277	mg/L	0.010	110	70	130	2.3	20	
Cobalt		0.596	mg/L	0.010	117	70	130	0.5	20	
Lead		0.604	mg/L	0.050	121	70	130	1.3	20	
Manganese		4.56	mg/L	0.010	104	70	130	0.8	20	
Molybdenum		0.586	mg/L	0.10	117	70	130	3.5	20	
Nickel		0.550	mg/L	0.050	106	70	130	0.5	20	
Vanadium		0.603	mg/L	0.10	120	70	130	0.7	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26729
Sample ID: MB-26729	5	Method Blank				Run: ICPMS2-C_100730B			07/30/10 22:16	
Aluminum		ND	mg/L	0.01						
Cadmium		ND	mg/L	4E-05						
Molybdenum		0.0002	mg/L	0.0001						
Nickel		ND	mg/L	8E-05						
Uranium		6E-05	mg/L	4E-05						
Sample ID: LCS3-26729	5	Laboratory Control Sample				Run: ICPMS2-C_100730B			07/30/10 22:50	
Aluminum		2.45	mg/L	0.10	98	85	115			
Cadmium		0.264	mg/L	0.010	106	85	115			
Molybdenum		0.569	mg/L	0.10	114	85	115			
Nickel		0.508	mg/L	0.050	102	85	115			
Uranium		0.573	mg/L	0.00030	115	85	115			
Sample ID: C10070623-014CMS3	5	Sample Matrix Spike				Run: ICPMS2-C_100730B			07/30/10 23:17	
Aluminum		2.19	mg/L	0.10	87	70	130			
Cadmium		0.252	mg/L	0.010	101	70	130			
Molybdenum		0.560	mg/L	0.10	111	70	130			
Nickel		0.491	mg/L	0.050	95	70	130			
Uranium		0.757	mg/L	0.00030	113	70	130			
Sample ID: C10070623-014CMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100730B			07/30/10 23:23	
Aluminum		2.37	mg/L	0.10	95	70	130	8	20	
Cadmium		0.269	mg/L	0.010	107	70	130	6.4	20	
Molybdenum		0.591	mg/L	0.10	118	70	130	5.5	20	
Nickel		0.532	mg/L	0.050	103	70	130	8.2	20	
Uranium		0.803	mg/L	0.00030	122	70	130	6	20	
Method: E200.8										Batch: 26729
Sample ID: MB-26729		Method Blank				Run: ICPMS2-C_100816A			08/17/10 01:11	
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-26729		Laboratory Control Sample				Run: ICPMS2-C_100816A			08/17/10 01:16	
Uranium		0.562	mg/L	0.00030	112	85	115			
Sample ID: C10070623-014CMS3		Sample Matrix Spike				Run: ICPMS2-C_100816A			08/17/10 02:46	
Uranium		0.764	mg/L	0.00030	116	70	130			
Sample ID: C10070623-014CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100816A			08/17/10 02:51	
Uranium		0.778	mg/L	0.00030	119	70	130	1.8	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135134
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100719A				07/19/10 17:42
Chloride		9.54	mg/L	1.0	95	90	110			
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100719A				07/19/10 17:58
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: C10070623-003AMS	2	Sample Matrix Spike				Run: IC2-C_100719A				07/20/10 02:44
Chloride		368	mg/L	4.0	102	80	120			
Sulfate		4040	mg/L	16		80	120			A
Sample ID: C10070623-003AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100719A				07/20/10 03:00
Chloride		367	mg/L	4.0	102	80	120	0.1	20	
Sulfate		4030	mg/L	16		80	120	0.2	20	A
Sample ID: C10070623-013AMS	2	Sample Matrix Spike				Run: IC2-C_100719A				07/20/10 06:33
Chloride		318	mg/L	4.0	102	80	120			
Sulfate		3610	mg/L	16	89	80	120			
Sample ID: C10070623-013AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100719A				07/20/10 09:40
Chloride		319	mg/L	4.0	102	80	120	0.3	20	
Sulfate		3600	mg/L	16	89	80	120	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R135226
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100723A				07/23/10 10:35
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100723A				07/23/10 10:38
Nitrogen, Nitrate+Nitrite as N		2.53	mg/L	0.10	101	90	110			
Sample ID: C10070532-008DMS		Sample Matrix Spike				Run: TECHNICON_100723A				07/23/10 10:53
Nitrogen, Nitrate+Nitrite as N		2.12	mg/L	0.10	98	90	110			
Sample ID: C10070532-008DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100723A				07/23/10 10:55
Nitrogen, Nitrate+Nitrite as N		2.12	mg/L	0.10	98	90	110	0	10	
Method: E353.2										Batch: R135289
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100726A				07/26/10 14:49
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100726A				07/26/10 14:51
Nitrogen, Nitrate+Nitrite as N		2.56	mg/L	0.10	102	90	110			
Sample ID: C10070624-005BMS		Sample Matrix Spike				Run: TECHNICON_100726A				07/26/10 15:44
Nitrogen, Nitrate+Nitrite as N		1.98	mg/L	0.10	99	90	110			
Sample ID: C10070624-005BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100726A				07/26/10 15:46
Nitrogen, Nitrate+Nitrite as N		1.99	mg/L	0.10	100	90	110	0.5	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135047
Sample ID: 19-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100719A				07/19/10 13:02
Bromodichloromethane		9.72	ug/L	1.0	97	70	130			
Bromoform		10.0	ug/L	1.0	100	70	130			
Chlorodibromomethane		9.40	ug/L	1.0	94	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		39.3	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	105	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: 19-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100719A				07/19/10 14:48
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	101	80	120			
Surr: p-Bromofluorobenzene				1.0	117	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070623-011HMS	9	Sample Matrix Spike				Run: GCMS2_100719A				07/19/10 22:24
Bromodichloromethane		98.4	ug/L	10	98	70	130			
Bromoform		94.0	ug/L	10	94	70	130			
Chlorodibromomethane		91.2	ug/L	10	91	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		392	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: C10070623-011HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100719A				07/19/10 22:59
Bromodichloromethane		102	ug/L	10	102	70	130	3.6	20	
Bromoform		98.4	ug/L	10	98	70	130	4.6	20	
Chlorodibromomethane		96.0	ug/L	10	96	70	130	5.1	20	
Chloroform		110	ug/L	10	110	70	130	1.5	20	
Trihalomethanes, Total		407	ug/L	10	102	70	130	3.6	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	106	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0337
Sample ID: MB-GA-0337	3	Method Blank				Run: G542M_100730A				08/03/10 10:09
Gross Alpha minus Rn & U		-0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.7	pCi/L							
Sample ID: LCS-GA-0337		Laboratory Control Sample				Run: G542M_100730A				08/03/10 10:09
Gross Alpha minus Rn & U		30.8	pCi/L		118	70	130			
Sample ID: C10070623-016GMS		Sample Matrix Spike				Run: G542M_100730A				08/03/10 11:43
Gross Alpha minus Rn & U		52.7	pCi/L		100	70	130			
Sample ID: C10070623-016GMSD		Sample Matrix Spike Duplicate				Run: G542M_100730A				08/03/10 11:43
Gross Alpha minus Rn & U		51.5	pCi/L		98	70	130	2.4	24.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4671
Sample ID: C10070594-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100719B				08/03/10 01:31
Radium 226		13.1	pCi/L		79	70	130			
Sample ID: C10070594-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100719B				08/03/10 01:31
Radium 226		14.2	pCi/L		86	70	130	8	27.3	
Sample ID: LCS-RA226-4671		Laboratory Control Sample				Run: BERTHOLD 770-2_100719B				08/03/10 01:31
Radium 226		8.7	pCi/L		111	70	130			
Sample ID: MB-RA226-4671	3	Method Blank				Run: BERTHOLD 770-2_100719B				08/03/10 01:31
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Method: E903.0										Batch: RA226-4670
Sample ID: C10070536-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719F				08/02/10 22:15
Radium 226		16.3	pCi/L		98	70	130			
Sample ID: C10070536-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719F				08/02/10 22:15
Radium 226		15.0	pCi/L		90	70	130	8.3	23	
Sample ID: LCS-RA226-4670		Laboratory Control Sample				Run: TENNELEC-3_100719F				08/02/10 22:15
Radium 226		7.8	pCi/L		98	70	130			
Sample ID: MB-RA226-4670	3	Method Blank				Run: TENNELEC-3_100719F				08/02/10 22:15
Radium 226		0.07	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1209
Sample ID: LCS-RA-TH-ISO-1209		Laboratory Control Sample				Run: EGG-ORTEC_100719A				07/21/10 08:41
Thorium 230		5.94	pCi/L		110	70	130			
Sample ID: C10070623-001GMS		Sample Matrix Spike				Run: EGG-ORTEC_100719A				07/21/10 08:41
Thorium 230		14.1	pCi/L		107	70	130			
Sample ID: C10070623-001GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100719A				07/21/10 08:41
Thorium 230		10.8	pCi/L		86	70	130	26	43.3	
Sample ID: MB-RA-TH-ISO-1209	3	Method Blank				Run: EGG-ORTEC_100719A				07/21/10 16:17
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0740	
Sample ID: MB-PB-210-0740	3	Method Blank				Run: BECKMAN 6100TA_100721A			07/23/10 21:44	
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: BECKMAN 6100TA_100721A			07/24/10 01:47	
Lead 210		110	pCi/L		102	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100721A			07/24/10 03:49	
Lead 210		89	pCi/L		81	70	130	23	17.1	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.										
Sample ID: LCS-PB-210-0740		Laboratory Control Sample				Run: BECKMAN 6100TA_100721A			07/25/10 14:15	
Lead 210		45	pCi/L		82	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 08/31/10
Work Order: C10070623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3286
Sample ID: LCS-228-RA226-4671		Laboratory Control Sample				Run: TENNELEC-3_100719C				07/28/10 15:31
Radium 228		8.4	pCi/L		120	70	130			
Sample ID: MB-RA226-4671	3	Method Blank				Run: TENNELEC-3_100719C				07/28/10 15:31
Radium 228		-0.6	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Sample ID: C10070594-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719C				07/28/10 15:31
Radium 228		16	pCi/L		104	70	130			
Sample ID: C10070594-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719C				07/28/10 15:31
Radium 228		16	pCi/L		101	70	130	3.3	33.8	
Method: RA-05										Batch: RA228-3285
Sample ID: LCS-228-RA226-4670		Laboratory Control Sample				Run: TENNELEC-3_100719D				07/28/10 13:18
Radium 228		7.2	pCi/L		97	70	130			
Sample ID: MB-RA226-4670	3	Method Blank				Run: TENNELEC-3_100719D				07/28/10 13:18
Radium 228		-0.1	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Sample ID: C10070536-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719D				07/28/10 13:18
Radium 228		14	pCi/L		87	70	130			
Sample ID: C10070536-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719D				07/28/10 13:18
Radium 228		15	pCi/L		89	70	130	1.4	33.2	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

August 24, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070631 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corporation on 7/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070631-001	604	07/14/10 09:00	07/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10070631-002	515-A	07/14/10 09:55	07/16/10	Aqueous	Same As Above
C10070631-003	614	07/14/10 11:00	07/16/10	Aqueous	Same As Above
C10070631-004	Field Blank	07/14/10 11:50	07/16/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D Waldrop
Reporting Supervisor

Digitally signed by Stephanie Waldrop
Date: 2010.08.24 11:46:05 -06:00

CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10070631

Report Date: 08/24/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R135260
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100723A				07/23/10 14:08
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100723A				07/23/10 14:24
Alkalinity, Total as CaCO3		208	mg/L	5.0	104	90	110			
Sample ID: C10070628-001ADUP	2	Sample Duplicate				Run: MANTECH_100723A				07/23/10 18:09
Alkalinity, Total as CaCO3		142	mg/L	5.0				1.3	10	
Bicarbonate as HCO3		169	mg/L	5.0				1.8	10	
Sample ID: C10070628-001AMS		Sample Matrix Spike				Run: MANTECH_100723A				07/23/10 18:17
Alkalinity, Total as CaCO3		274	mg/L	5.0	104	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100719_1_SLDS-TDS-W	
Sample ID: MBLK1_100719		Method Blank				Run: BAL-1_100719A			07/19/10 16:14	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100719		Laboratory Control Sample				Run: BAL-1_100719A			07/19/10 16:14	
Solids, Total Dissolved TDS @ 180 C		986	mg/L	10	99	90	110			
Sample ID: C10070636-005AMS		Sample Matrix Spike				Run: BAL-1_100719A			07/19/10 16:16	
Solids, Total Dissolved TDS @ 180 C		3400	mg/L	10	99	90	110			
Sample ID: C10070636-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100719A			07/19/10 16:16	
Solids, Total Dissolved TDS @ 180 C		3400	mg/L	10	97	90	110	0.1	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 26735
Sample ID: MB-26735		Method Blank				Run: CVAA-C202_100727C				07/27/10 15:38
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26735		Laboratory Control Sample				Run: CVAA-C202_100727C				07/27/10 15:40
Selenium-IV		0.0504	mg/L	0.0010	101	90	110			
Sample ID: C10070630-001CMS		Sample Matrix Spike				Run: CVAA-C202_100727C				07/27/10 15:47
Selenium-IV		0.0472	mg/L	0.0010	93	85	115			
Sample ID: C10070630-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100727C				07/27/10 15:50
Selenium-IV		0.0466	mg/L	0.0010	92	85	115	1.3	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_100719A	
Sample ID: ICV1_100719_1		Initial Calibration Verification Standard							07/19/10 10:52	
pH		6.73	s.u.	0.010	98	98	102			
Method: A4500-H B									Batch: 100719_1_PH-W_555A-2	
Sample ID: C10070628-010ADUP		Sample Duplicate				Run: ORION555A-2_100719A			07/19/10 11:24	
pH		7.39	s.u.	0.010				0.8	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R135849
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100809A			08/09/10 11:23	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100809A			08/09/10 11:25	
Nitrogen, Ammonia as N		19.0	mg/L	0.50	95	80	120			
Sample ID: C10070631-001DMS		Sample Matrix Spike				Run: TECHNICON_100809A			08/09/10 13:33	
Nitrogen, Ammonia as N		2.81	mg/L	0.050	127	80	120			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Sample ID: C10070631-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100809A			08/09/10 13:35	
Nitrogen, Ammonia as N		2.88	mg/L	0.050	130	80	120	2.5	20	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R64046
Sample ID: ICB_13r		Method Blank				Run: SUB-H64046				07/28/10 13:13
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100728-LFB		Laboratory Control Sample				Run: SUB-H64046				07/28/10 13:20
Arsenic-III		51.1	ug/L	5.0	102	90	110			
Sample ID: H10070294-011E MS		Sample Matrix Spike				Run: SUB-H64046				07/28/10 13:32
Arsenic-III		51.8	ug/L	5.0	104	55	146			
Sample ID: H10070294-011E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64046				07/28/10 13:38
Arsenic-III		52.9	ug/L	5.0	106	55	146	2.1	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 26747
Sample ID: MB-26747	4	Method Blank				Run: ICP2-C_100721A			07/21/10 18:08	
Beryllium		ND	mg/L	0.0001						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Sample ID: LCS3-26747	4	Laboratory Control Sample				Run: ICP2-C_100721A			07/21/10 18:12	
Beryllium		0.261	mg/L	0.010	104	85	115			
Manganese		2.56	mg/L	0.010	102	85	115			
Molybdenum		0.543	mg/L	0.10	109	85	115			
Nickel		0.524	mg/L	0.050	105	85	115			
Sample ID: C10070679-001CMS3	4	Sample Matrix Spike				Run: ICP2-C_100721A			07/21/10 19:00	
Beryllium		0.263	mg/L	0.010	100	70	130			
Manganese		18.4	mg/L	0.010		70	130			A
Molybdenum		0.513	mg/L	0.10	103	70	130			
Nickel		0.889	mg/L	0.050	100	70	130			
Sample ID: C10070679-001CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100721A			07/21/10 19:04	
Beryllium		0.263	mg/L	0.010	100	70	130	0.1	20	
Manganese		18.2	mg/L	0.010		70	130	1.1	20	A
Molybdenum		0.522	mg/L	0.10	104	70	130	1.8	20	
Nickel		0.901	mg/L	0.050	102	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135436
Sample ID: MB-100728A	4	Method Blank				Run: ICP2-C_100728A				07/28/10 12:44
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100728A	4	Laboratory Fortified Blank				Run: ICP2-C_100728A				07/28/10 12:48
Calcium		51.1	mg/L	0.50	102	85	115			
Magnesium		50.6	mg/L	0.50	101	85	115			
Potassium		48.2	mg/L	0.50	96	85	115			
Sodium		49.6	mg/L	0.50	99	85	115			
Sample ID: C10070630-002BMS2	4	Sample Matrix Spike				Run: ICP2-C_100728A				07/28/10 19:48
Calcium		990	mg/L	2.3	99	70	130			
Magnesium		1100	mg/L	1.0	103	70	130			
Potassium		484	mg/L	1.0	93	70	130			
Sodium		673	mg/L	2.9	97	70	130			
Sample ID: C10070630-002BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100728A				07/28/10 19:52
Calcium		997	mg/L	2.3	100	70	130	0.6	20	
Magnesium		1080	mg/L	1.0	100	70	130	1.5	20	
Potassium		479	mg/L	1.0	92	70	130	1	20	
Sodium		674	mg/L	2.9	98	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26747
Sample ID: MB-26747	5	Method Blank				Run: ICPMS2-C_100722A				07/22/10 16:25
Aluminum		ND	mg/L	0.01						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		ND	mg/L	5E-05						
Vanadium		0.002	mg/L	0.0005						
Sample ID: LCS3-26747	5	Laboratory Control Sample				Run: ICPMS2-C_100722A				07/22/10 16:32
Aluminum		2.46	mg/L	0.10	99	85	115			
Cadmium		0.271	mg/L	0.010	108	85	115			
Cobalt		0.525	mg/L	0.010	105	85	115			
Lead		0.563	mg/L	0.050	113	85	115			
Vanadium		0.533	mg/L	0.10	106	85	115			
Sample ID: C10070679-001CMS3	5	Sample Matrix Spike				Run: ICPMS2-C_100722A				07/22/10 17:52
Aluminum		84.6	mg/L	0.10		70	130			A
Cadmium		0.308	mg/L	0.010	100	70	130			
Cobalt		0.829	mg/L	0.010	100	70	130			
Lead		0.586	mg/L	0.050	111	70	130			
Vanadium		0.503	mg/L	0.10	100	70	130			
Sample ID: C10070679-001CMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100722A				07/22/10 17:59
Aluminum		84.1	mg/L	0.10		70	130	0.6	20	A
Cadmium		0.311	mg/L	0.010	101	70	130	0.9	20	
Cobalt		0.835	mg/L	0.010	101	70	130	0.7	20	
Lead		0.578	mg/L	0.050	109	70	130	1.5	20	
Vanadium		0.507	mg/L	0.10	101	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26747
Sample ID: MB-26747		Method Blank				Run: ICPMS2-C_100723A				07/23/10 13:10
Uranium		0.0001	mg/L	4E-05						
Sample ID: LCS3-26747		Laboratory Control Sample				Run: ICPMS2-C_100723A				07/23/10 13:17
Uranium		0.570	mg/L	0.00030	114	85	115			
Sample ID: C10070679-001CMS3		Sample Matrix Spike				Run: ICPMS2-C_100723A				07/23/10 13:58
Uranium		0.594	mg/L	0.00030	116	70	130			
Sample ID: C10070679-001CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100723A				07/23/10 14:31
Uranium		0.572	mg/L	0.00030	112	70	130	3.7	20	
Method: E200.8										Batch: R135246
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_100723A				07/23/10 16:33
Aluminum		ND	mg/L	0.0001						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Cobalt		ND	mg/L	2E-05						
Lead		ND	mg/L	3E-05						
Manganese		5E-05	mg/L	5E-05						
Molybdenum		0.0007	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Uranium		2E-05	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_100723A				07/23/10 16:40
Aluminum		0.050	mg/L	0.0010	100	85	115			
Beryllium		0.052	mg/L	0.0010	103	85	115			
Cadmium		0.050	mg/L	0.0010	101	85	115			
Cobalt		0.050	mg/L	0.0010	100	85	115			
Lead		0.051	mg/L	0.0010	102	85	115			
Manganese		0.049	mg/L	0.0010	98	85	115			
Molybdenum		0.051	mg/L	0.0010	100	85	115			
Nickel		0.051	mg/L	0.0010	103	85	115			
Uranium		0.049	mg/L	0.00030	98	85	115			
Vanadium		0.049	mg/L	0.0010	98	85	115			
Sample ID: C10070631-004CMS4	10	Sample Matrix Spike				Run: ICPMS2-C_100723A				07/24/10 01:49
Aluminum		0.046	mg/L	0.010	92	70	130			
Beryllium		0.046	mg/L	0.010	93	70	130			
Cadmium		0.050	mg/L	0.010	99	70	130			
Cobalt		0.048	mg/L	0.010	95	70	130			
Lead		0.051	mg/L	0.050	99	70	130			
Manganese		0.049	mg/L	0.010	96	70	130			
Molybdenum		0.049	mg/L	0.0010	98	70	130			
Nickel		0.049	mg/L	0.0010	97	70	130			
Uranium		0.047	mg/L	0.00030	95	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R135246
Sample ID: C10070631-004CMS4	10	Sample Matrix Spike				Run: ICPMS2-C_100723A			07/24/10 01:49	
Vanadium		0.049	mg/L	0.0010	97	70	130			
Sample ID: C10070631-004CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100723A			07/24/10 02:23	
Aluminum		0.053	mg/L	0.010	106	70	130	14	20	
Beryllium		0.049	mg/L	0.010	97	70	130	4.6	20	
Cadmium		0.050	mg/L	0.010	99	70	130	0	20	
Cobalt		0.048	mg/L	0.010	96	70	130	0.4	20	
Lead		0.051	mg/L	0.050	99	70	130	0.3	20	
Manganese		0.048	mg/L	0.010	96	70	130	0.6	20	
Molybdenum		0.049	mg/L	0.0010	99	70	130	0.4	20	
Nickel		0.049	mg/L	0.0010	98	70	130	0.9	20	
Uranium		0.048	mg/L	0.00030	96	70	130	0.7	20	
Vanadium		0.048	mg/L	0.0010	97	70	130	0.1	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135134
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100719A				07/19/10 17:42
Chloride		9.54	mg/L	1.0	95	90	110			
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100719A				07/19/10 17:58
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: C10070633-001AMS	2	Sample Matrix Spike				Run: IC2-C_100719A				07/20/10 13:30
Chloride		12.4	mg/L	1.0	103	80	120			
Sulfate		64.2	mg/L	1.0	104	80	120			
Sample ID: C10070633-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100719A				07/20/10 13:47
Chloride		12.6	mg/L	1.0	104	80	120	1	20	
Sulfate		65.1	mg/L	1.0	106	80	120	1.3	20	
Method: E300.0										Batch: R135566
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100728A				07/28/10 13:06
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100728A				07/28/10 13:22
Sulfate		ND	mg/L	0.04						
Sample ID: C10070676-002AMS		Sample Matrix Spike				Run: IC2-C_100728A				07/28/10 15:17
Sulfate		453	mg/L	8.0	99	80	120			
Sample ID: C10070676-002AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100728A				07/28/10 15:34
Sulfate		451	mg/L	8.0	99	80	120	0.4	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R135289
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100726A				07/26/10 14:49
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100726A				07/26/10 14:51
Nitrogen, Nitrate+Nitrite as N		2.56	mg/L	0.10	102	90	110			
Sample ID: C10070651-001CMS		Sample Matrix Spike				Run: TECHNICON_100726A				07/26/10 18:19
Nitrogen, Nitrate+Nitrite as N		2.72	mg/L	0.10	100	90	110			
Sample ID: C10070651-001CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100726A				07/26/10 18:21
Nitrogen, Nitrate+Nitrite as N		2.70	mg/L	0.10	99	90	110	0.7	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135047
Sample ID: 19-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100719A				07/19/10 13:02
Bromodichloromethane		9.72	ug/L	1.0	97	70	130			
Bromoform		10.0	ug/L	1.0	100	70	130			
Chlorodibromomethane		9.40	ug/L	1.0	94	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		39.3	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	105	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: 19-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100719A				07/19/10 14:48
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	101	80	120			
Surr: p-Bromofluorobenzene				1.0	117	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070623-011HMS	9	Sample Matrix Spike				Run: GCMS2_100719A				07/19/10 22:24
Bromodichloromethane		98.4	ug/L	10	98	70	130			
Bromoform		94.0	ug/L	10	94	70	130			
Chlorodibromomethane		91.2	ug/L	10	91	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		392	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: C10070623-011HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100719A				07/19/10 22:59
Bromodichloromethane		102	ug/L	10	102	70	130	3.6	20	
Bromoform		98.4	ug/L	10	98	70	130	4.6	20	
Chlorodibromomethane		96.0	ug/L	10	96	70	130	5.1	20	
Chloroform		110	ug/L	10	110	70	130	1.5	20	
Trihalomethanes, Total		407	ug/L	10	102	70	130	3.6	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	106	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135104
Sample ID: 20-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100720B				07/20/10 11:20
Bromodichloromethane		10.1	ug/L	1.0	101	70	130			
Bromoform		10.1	ug/L	1.0	101	70	130			
Chlorodibromomethane		9.44	ug/L	1.0	94	70	130			
Chloroform		11.1	ug/L	1.0	111	70	130			
Trihalomethanes, Total		40.7	ug/L	1.0	102	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	109	80	120			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	109	80	120			
Sample ID: 20-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100720B				07/20/10 13:05
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				0.50	110	80	120			
Surr: Dibromofluoromethane				0.50	100	80	120			
Surr: p-Bromofluorobenzene				0.50	119	80	120			
Surr: Toluene-d8				0.50	104	80	120			
Sample ID: C10070631-003HMS	9	Sample Matrix Spike				Run: GCMS2_100720B				07/21/10 00:13
Bromodichloromethane		214	ug/L	20	107	70	130			
Bromoform		201	ug/L	20	100	70	130			
Chlorodibromomethane		206	ug/L	20	103	70	130			
Chloroform		422	ug/L	20	128	70	130			
Trihalomethanes, Total		1040	ug/L	20	109	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	107	80	120			
Sample ID: C10070631-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100720B				07/21/10 00:49
Bromodichloromethane		213	ug/L	20	106	70	130	0.4	20	
Bromoform		207	ug/L	20	104	70	130	3.1	20	
Chlorodibromomethane		197	ug/L	20	98	70	130	4.4	20	
Chloroform		406	ug/L	20	119	70	130	4.1	20	
Trihalomethanes, Total		1020	ug/L	20	107	70	130	1.9	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	108	80	120			
Surr: Dibromofluoromethane				1.0	105	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	107	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0338
Sample ID: MB-GA-0338	3	Method Blank				Run: G5000W_100802A				08/04/10 17:22
Gross Alpha minus Rn & U		-0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0338		Laboratory Control Sample				Run: G5000W_100802A				08/04/10 17:22
Gross Alpha minus Rn & U		27.9	pCi/L		106	70	130			
Sample ID: C10070662-001IMS		Sample Matrix Spike				Run: G5000W_100802A				08/04/10 17:23
Gross Alpha minus Rn & U		27.8	pCi/L		101	70	130			
Sample ID: C10070662-001IMSD		Sample Matrix Spike Duplicate				Run: G5000W_100802A				08/04/10 17:23
Gross Alpha minus Rn & U		28.7	pCi/L		105	70	130	3.2	25.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4672
Sample ID: C10070595-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719G			08/03/10 01:51	
Radium 226		15.4	pCi/L		93	70	130			
Sample ID: C10070595-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719G			08/03/10 01:51	
Radium 226		14.2	pCi/L		86	70	130	7.8	23	
Sample ID: LCS-RA226-4672		Laboratory Control Sample				Run: TENNELEC-3_100719G			08/03/10 01:51	
Radium 226		7.9	pCi/L		99	70	130			
Sample ID: MB-RA226-4672	3	Method Blank				Run: TENNELEC-3_100719G			08/03/10 01:51	
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1210	
Sample ID: LCS-RA-TH-ISO-1210		Laboratory Control Sample				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		4.84	pCi/L		92	70	130			
Sample ID: C10070631-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		11.6	pCi/L		92	70	130			
Sample ID: C10070631-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		13.5	pCi/L		102	70	130	15	31.9	
Sample ID: MB-RA-TH-ISO-1210	3	Method Blank				Run: EGG-ORTEC_100720A			07/22/10 08:58	
Thorium 230		0.002	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0741	
Sample ID: MB-PB-210-0741	3	Method Blank				Run: BECKMAN 6100TA_100721B			07/26/10 14:39	
Lead 210		-0.7	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: BECKMAN 6100TA_100721B			07/26/10 18:42	
Lead 210		40	pCi/L		73	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100721B			07/26/10 20:44	
Lead 210		45	pCi/L		82	70	130	12	17	
Sample ID: LCS-PB-210-0741		Laboratory Control Sample				Run: BECKMAN 6100TA_100721B			07/28/10 11:13	
Lead 210		10	pCi/L		20	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/24/10
Work Order: C10070631

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3287
Sample ID: LCS-228-RA226-4672		Laboratory Control Sample				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		7.2	pCi/L		95	70	130			
Sample ID: MB-RA226-4672	3	Method Blank				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		0.03	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10070595-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		13	pCi/L		86	70	130			
Sample ID: C10070595-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		14	pCi/L		93	70	130	8.1	37.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

August 31, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070882 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 7 samples for United Nuclear Corporation on 7/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070882-001	EPA-4	07/19/10 09:40	07/23/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10070882-002	EPA-5	07/19/10 10:35	07/23/10	Aqueous	Same As Above
C10070882-003	EPA-7	07/19/10 11:15	07/23/10	Aqueous	Same As Above
C10070882-004	EPA-2	07/19/10 12:00	07/23/10	Aqueous	Same As Above
C10070882-005	EPA-2 Duplicate	07/19/10 12:30	07/23/10	Aqueous	Same As Above
C10070882-006	TWQ-142	07/20/10 12:30	07/23/10	Aqueous	Same As Above
C10070882-007	Field Blank	07/20/10 16:00	07/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.08.31 14:45:00 -06:00

CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10070882

Report Date: 08/31/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R135455
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100728A				07/28/10 13:20
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100728A				07/28/10 13:36
Alkalinity, Total as CaCO3		206	mg/L	5.0	103	90	110			
Sample ID: C10070882-001ADUP	2	Sample Duplicate				Run: MANTECH_100728A				07/28/10 20:38
Alkalinity, Total as CaCO3		132	mg/L	5.0				2.2	10	
Bicarbonate as HCO3		161	mg/L	5.0				2.2	10	
Sample ID: C10070913-004AMS		Sample Matrix Spike				Run: MANTECH_100728A				07/28/10 22:27
Alkalinity, Total as CaCO3		541	mg/L	5.0	104	80	120			

Qualifiers:
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QA/QC Summary Report

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100723_2_SLDS-TDS-W	
Sample ID: MBLK1_100723		Method Blank				Run: BAL-1_100723B			07/23/10 17:27	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100723		Laboratory Control Sample				Run: BAL-1_100723B			07/23/10 17:27	
Solids, Total Dissolved TDS @ 180 C		975	mg/L	10	98	90	110			
Sample ID: C10070882-005AMS		Sample Matrix Spike				Run: BAL-1_100723B			07/23/10 17:39	
Solids, Total Dissolved TDS @ 180 C		5010	mg/L	10	101	90	110			
Sample ID: C10070882-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100723B			07/23/10 17:39	
Solids, Total Dissolved TDS @ 180 C		4960	mg/L	10	98	90	110	1.1	10	
Sample ID: C10070882-007AMS		Sample Matrix Spike				Run: BAL-1_100723B			07/23/10 17:40	
Solids, Total Dissolved TDS @ 180 C		5400	mg/L	10	99	90	110			
Sample ID: C10070882-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100723B			07/23/10 17:40	
Solids, Total Dissolved TDS @ 180 C		5420	mg/L	10	98	90	110	0.3	10	
Method: A2540 C									Batch: 100728_1_SLDS-TDS-W	
Sample ID: MBLK1_100728		Method Blank				Run: BAL-1_100728A			07/28/10 16:01	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100728		Laboratory Control Sample				Run: BAL-1_100728A			07/28/10 16:01	
Solids, Total Dissolved TDS @ 180 C		996	mg/L	10	100	90	110			
Sample ID: C10070882-002AMS		Sample Matrix Spike				Run: BAL-1_100728A			07/28/10 16:04	
Solids, Total Dissolved TDS @ 180 C		7780	mg/L	14	98	90	110			
Sample ID: C10070882-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100728A			07/28/10 16:04	
Solids, Total Dissolved TDS @ 180 C		7840	mg/L	14	100	90	110	0.8	10	

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QA/QC Summary Report

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 26955
Sample ID: MB-26955		Method Blank				Run: CVAA-C202_100805B				08/05/10 14:05
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26955		Laboratory Control Sample				Run: CVAA-C202_100805B				08/05/10 14:07
Selenium-IV		0.0529	mg/L	0.0010	106	90	110			
Sample ID: C10070882-001CMS		Sample Matrix Spike				Run: CVAA-C202_100805B				08/05/10 14:45
Selenium-IV		0.0452	mg/L	0.0010	90	85	115			
Sample ID: C10070882-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100805B				08/05/10 14:47
Selenium-IV		0.0476	mg/L	0.0010	95	85	115	5.2	10	

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_100723B	
Sample ID: ICV1_100723_2		Initial Calibration Verification Standard							07/23/10 15:01	
pH		6.72	s.u.	0.010	98	98	102			
Method: A4500-H B									Batch: 100723_2_PH-W_555A-2	
Sample ID: C10070882-004ADUP		Sample Duplicate				Run: ORION555A-2_100723B			07/23/10 16:17	
pH		6.97	s.u.	0.010				0.9	10	
Sample ID: C10070882-005ADUP		Sample Duplicate				Run: ORION555A-2_100723B			07/23/10 16:47	
pH		7.15	s.u.	0.010				1.5	10	

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QA/QC Summary Report

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R136103
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100816A				08/16/10 11:34
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100816A				08/16/10 11:36
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10070976-001EMS		Sample Matrix Spike				Run: TECHNICON_100816A				08/16/10 12:18
Nitrogen, Ammonia as N		1.98	mg/L	0.050	99	80	120			
Sample ID: C10070976-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100816A				08/16/10 12:20
Nitrogen, Ammonia as N		1.99	mg/L	0.050	100	80	120	0.5	20	
Sample ID: C10080074-007AMS		Sample Matrix Spike				Run: TECHNICON_100816A				08/16/10 12:50
Nitrogen, Ammonia as N		2.00	mg/L	0.050	100	80	120			
Sample ID: C10080074-007AMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100816A				08/16/10 12:52
Nitrogen, Ammonia as N		2.00	mg/L	0.050	100	80	120	0	20	

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QA/QC Summary Report

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R64081
Sample ID: ICB_13r		Method Blank				Run: SUB-H64081				07/29/10 10:39
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100729-LFB		Laboratory Control Sample				Run: SUB-H64081				07/29/10 10:45
Arsenic-III		46.1	ug/L	5.0	92	90	110			
Sample ID: H10070394-001E MS		Sample Matrix Spike				Run: SUB-H64081				07/29/10 11:10
Arsenic-III		48.2	ug/L	5.0	96	55	146			
Sample ID: H10070394-001E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64081				07/29/10 11:16
Arsenic-III		45.0	ug/L	5.0	90	55	146	6.9	20	

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QA/QC Summary Report

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135534
Sample ID: MB-100729A	4	Method Blank				Run: ICP2-C_100729A				07/29/10 13:58
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100729A	4	Laboratory Fortified Blank				Run: ICP2-C_100729A				07/29/10 14:02
Calcium		50.3	mg/L	0.50	101	85	115			
Magnesium		50.6	mg/L	0.50	101	85	115			
Potassium		45.4	mg/L	0.50	91	85	115			
Sodium		47.2	mg/L	0.50	94	85	115			
Sample ID: C10070882-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100729A				07/30/10 10:44
Calcium		792	mg/L	1.1	88	70	130			
Magnesium		639	mg/L	1.0	95	70	130			
Potassium		234	mg/L	1.0	89	70	130			
Sodium		430	mg/L	1.4	98	70	130			
Sample ID: C10070882-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100729A				07/30/10 10:48
Calcium		794	mg/L	1.1	89	70	130	0.3	20	
Magnesium		640	mg/L	1.0	96	70	130	0.2	20	
Potassium		238	mg/L	1.0	90	70	130	1.3	20	
Sodium		425	mg/L	1.4	96	70	130	1.2	20	
Method: E200.7										Batch: 26870
Sample ID: MB-26870		Method Blank				Run: ICP2-C_100802A				08/02/10 19:44
Molybdenum		ND	mg/L	0.005						
Sample ID: LCS3-26870		Laboratory Control Sample				Run: ICP2-C_100802A				08/02/10 19:48
Molybdenum		0.534	mg/L	0.10	107	85	115			
Sample ID: C10070887-021BMS3		Sample Matrix Spike				Run: ICP2-C_100802A				08/02/10 20:20
Molybdenum		0.537	mg/L	0.10	107	70	130			
Sample ID: C10070887-021BMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_100802A				08/02/10 20:24
Molybdenum		0.506	mg/L	0.10	101	70	130	5.9	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135754
Sample ID: MB-100804A	3	Method Blank				Run: ICP2-C_100804A				08/04/10 12:48
Calcium		ND	mg/L	0.2						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100804A	3	Laboratory Fortified Blank				Run: ICP2-C_100804A				08/04/10 12:52
Calcium		50.2	mg/L	0.50	100	85	115			
Potassium		44.9	mg/L	0.50	90	85	115			
Sodium		49.5	mg/L	0.50	99	85	115			
Sample ID: C10070817-001BMS2	3	Sample Matrix Spike				Run: ICP2-C_100804A				08/04/10 13:44
Calcium		149	mg/L	1.0	98	70	130			
Potassium		96.2	mg/L	1.0	93	70	130			
Sodium		105	mg/L	1.0	98	70	130			
Sample ID: C10070817-001BMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_100804A				08/04/10 13:49
Calcium		150	mg/L	1.0	99	70	130	1.1	20	
Potassium		95.1	mg/L	1.0	92	70	130	1.1	20	
Sodium		106	mg/L	1.0	99	70	130	1.4	20	

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QA/QC Summary Report

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Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26870
Sample ID: MB-26870	8	Method Blank				Run: ICPMS2-C_100730B				07/30/10 17:59
Aluminum		ND	mg/L	0.006						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	3E-05						
Lead		ND	mg/L	8E-05						
Manganese		ND	mg/L	0.0001						
Nickel		ND	mg/L	9E-05						
Vanadium		ND	mg/L	0.002						
Sample ID: LCS3-26870	8	Laboratory Control Sample				Run: ICPMS2-C_100730B				07/30/10 18:06
Aluminum		2.5	mg/L	0.10	99	85	115			
Beryllium		0.27	mg/L	0.0010	109	85	115			
Cadmium		0.27	mg/L	0.0010	108	85	115			
Cobalt		0.53	mg/L	0.010	106	85	115			
Lead		0.57	mg/L	0.0010	114	85	115			
Manganese		2.6	mg/L	0.010	103	85	115			
Nickel		0.50	mg/L	0.050	100	85	115			
Vanadium		0.54	mg/L	0.10	107	85	115			
Sample ID: C10070887-021BMS3	8	Sample Matrix Spike				Run: ICPMS2-C_100730B				07/30/10 19:34
Aluminum		2.8	mg/L	0.10	99	70	130			
Beryllium		0.25	mg/L	0.0010	98	70	130			
Cadmium		0.25	mg/L	0.0010	100	70	130			
Cobalt		0.50	mg/L	0.010		70	130			
Lead		0.56	mg/L	0.0010	111	70	130			
Manganese		2.5	mg/L	0.010	98	70	130			
Nickel		0.48	mg/L	0.050	95	70	130			
Vanadium		0.52	mg/L	0.10		70	130			
Sample ID: C10070887-021BMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100730B				07/30/10 19:40
Aluminum		2.6	mg/L	0.10	92	70	130	6.1	20	
Beryllium		0.23	mg/L	0.0010	92	70	130	6.2	20	
Cadmium		0.24	mg/L	0.0010	95	70	130	4.8	20	
Cobalt		0.48	mg/L	0.010		70	130	5.1	20	
Lead		0.53	mg/L	0.0010	105	70	130	5.4	20	
Manganese		2.4	mg/L	0.010	93	70	130	5.8	20	
Nickel		0.44	mg/L	0.050	89	70	130	7.2	20	
Vanadium		0.49	mg/L	0.10		70	130	5.9	20	
Method: E200.8										Batch: R135542
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_100730B				07/30/10 13:29
Aluminum		ND	mg/L	0.0001						
Beryllium		ND	mg/L	3E-05						
Cadmium		3E-05	mg/L	1E-05						
Cobalt		ND	mg/L	2E-05						

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R135542
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_100730B			07/30/10 13:29	
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_100730B			07/30/10 13:36	
Aluminum		0.0516	mg/L	0.0010	103	85	115			
Beryllium		0.0524	mg/L	0.0010	105	85	115			
Cadmium		0.0529	mg/L	0.0010	106	85	115			
Cobalt		0.0526	mg/L	0.0010	105	85	115			
Lead		0.0529	mg/L	0.0010	106	85	115			
Manganese		0.0525	mg/L	0.0010	105	85	115			
Molybdenum		0.0529	mg/L	0.0010	106	85	115			
Nickel		0.0528	mg/L	0.0010	106	85	115			
Uranium		0.0512	mg/L	0.00030	102	85	115			
Vanadium		0.0520	mg/L	0.0010	104	85	115			
Sample ID: C10070913-010CMS4	10	Sample Matrix Spike				Run: ICPMS2-C_100730B			07/31/10 02:26	
Aluminum		0.0626	mg/L	0.0010	125	70	130			
Beryllium		0.0464	mg/L	0.010	93	70	130			
Cadmium		0.0492	mg/L	0.010	98	70	130			
Cobalt		0.0666	mg/L	0.010	91	70	130			
Lead		0.0527	mg/L	0.050	104	70	130			
Manganese		4.61	mg/L	0.010		70	130			A
Molybdenum		1.60	mg/L	0.10		70	130			A
Nickel		0.0970	mg/L	0.050	104	70	130			
Uranium		35.3	mg/L	0.00030		70	130			A
Vanadium		0.0499	mg/L	0.0010	100	70	130			
Sample ID: C10070913-010CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100730B			07/31/10 02:33	
Aluminum		ND	mg/L	0.0010		70	130		20	S
Beryllium		0.0465	mg/L	0.010	93	70	130	0.2	20	
Cadmium		0.0496	mg/L	0.010	99	70	130	0.8	20	
Cobalt		0.0679	mg/L	0.010	94	70	130	1.9	20	
Lead		0.0531	mg/L	0.050	105	70	130	0.9	20	
Manganese		4.67	mg/L	0.010		70	130	1.3	20	A
Molybdenum		1.61	mg/L	0.10		70	130	0.7	20	A
Nickel		0.0950	mg/L	0.050	100	70	130	2.1	20	
Uranium		35.4	mg/L	0.00030		70	130	0.5	20	A
Vanadium		0.0510	mg/L	0.0010	102	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

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Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26870
Sample ID: MB-26870		Method Blank				Run: ICPMS2-C_100816A				08/17/10 04:36
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-26870		Laboratory Control Sample				Run: ICPMS2-C_100816A				08/17/10 04:42
Uranium		0.537	mg/L	0.00030	107	85	115			
Sample ID: C10070887-021BMS3		Sample Matrix Spike				Run: ICPMS2-C_100816A				08/17/10 05:45
Uranium		0.555	mg/L	0.00030	109	70	130			
Sample ID: C10070887-021BMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100816A				08/17/10 05:50
Uranium		0.522	mg/L	0.00030	103	70	130	6.1	20	
Method: E200.8										Batch: R136601
Sample ID: LRB		Method Blank				Run: ICPMS2-C_100827A				08/27/10 17:46
Uranium		ND	mg/L	1E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_100827A				08/27/10 17:51
Uranium		0.0525	mg/L	0.00030	105	85	115			
Sample ID: C10080848-023BMS		Sample Matrix Spike				Run: ICPMS2-C_100827A				08/28/10 04:11
Uranium		0.0585	mg/L	0.00030	117	70	130			
Sample ID: C10080848-023BMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100827A				08/28/10 04:16
Uranium		0.0588	mg/L	0.00030	117	70	130	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135566
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100728A				07/28/10 13:06
Chloride		9.46	mg/L	1.0	95	90	110			
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100728A				07/28/10 13:22
Chloride		ND	mg/L	0.2						
Sulfate		ND	mg/L	0.04						
Sample ID: C10070882-005AMS	2	Sample Matrix Spike				Run: IC2-C_100728A				07/29/10 16:34
Chloride		119	mg/L	2.0	99	80	120			
Sulfate		2200	mg/L	8.0		80	120			A
Sample ID: C10070882-005AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100728A				07/29/10 16:50
Chloride		118	mg/L	2.0	99	80	120	0.5	20	
Sulfate		2190	mg/L	8.0		80	120	0.5	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R135698
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100804A				08/04/10 10:45
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100804A				08/04/10 10:47
Nitrogen, Nitrate+Nitrite as N		2.45	mg/L	0.10	98	90	110			
Sample ID: C10070882-005DMS		Sample Matrix Spike				Run: TECHNICON_100804A				08/04/10 12:20
Nitrogen, Nitrate+Nitrite as N		2.03	mg/L	0.10	101	90	110			
Sample ID: C10070882-005DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100804A				08/04/10 12:22
Nitrogen, Nitrate+Nitrite as N		2.02	mg/L	0.10	101	90	110	0.5	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R135399	
Sample ID: 26-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A			07/26/10 11:28	
Bromodichloromethane		10.3	ug/L	1.0	103	70	130			
Bromoform		10.7	ug/L	1.0	107	70	130			
Chlorodibromomethane		9.76	ug/L	1.0	98	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		42.0	ug/L	1.0	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: 26-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100727A			07/26/10 13:15	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	111	80	120			
Surr: Dibromofluoromethane				1.0	103	80	120			
Surr: p-Bromofluorobenzene				1.0	126	80	120			S
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070881-003HMS	9	Sample Matrix Spike				Run: GCMS2_100727A			07/26/10 20:17	
Bromodichloromethane		109	ug/L	10	109	70	130			
Bromoform		107	ug/L	10	107	70	130			
Chlorodibromomethane		99.2	ug/L	10	99	70	130			
Chloroform		128	ug/L	10	128	70	130			
Trihalomethanes, Total		443	ug/L	10	111	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	115	80	120			
Surr: Dibromofluoromethane				1.0	125	80	120			S
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	108	80	120			
Sample ID: C10070881-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100727A			07/26/10 20:52	
Bromodichloromethane		108	ug/L	10	108	70	130	0.4	20	
Bromoform		110	ug/L	10	110	70	130	3.3	20	
Chlorodibromomethane		102	ug/L	10	102	70	130	2.4	20	
Chloroform		118	ug/L	10	118	70	130	8.1	20	
Trihalomethanes, Total		439	ug/L	10	110	70	130	1	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	106	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: 27-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A			07/27/10 12:12	
Bromodichloromethane		10.2	ug/L	1.0	102	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135399
Sample ID: 27-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A				07/27/10 12:12
Bromoform		10.6	ug/L	1.0	106	70	130			
Chlorodibromomethane		9.36	ug/L	1.0	94	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		41.3	ug/L	1.0	103	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	110	80	120			
Surr: Toluene-d8				1.0	110	80	120			
Sample ID: 27-Jul-10_MBLK_7	9	Method Blank				Run: GCMS2_100727A				07/27/10 16:33
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	132	80	120			S
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070882-004HMS	9	Sample Matrix Spike				Run: GCMS2_100727A				07/27/10 22:59
Bromodichloromethane		106	ug/L	10	106	70	130			
Bromoform		101	ug/L	10	101	70	130			
Chlorodibromomethane		98.4	ug/L	10	98	70	130			
Chloroform		117	ug/L	10	117	70	130			
Trihalomethanes, Total		422	ug/L	10	106	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	111	80	120			
Surr: Dibromofluoromethane				1.0	114	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	108	80	120			
Sample ID: C10070882-004HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100727A				07/27/10 23:34
Bromodichloromethane		107	ug/L	10	107	70	130	1.5	20	
Bromoform		113	ug/L	10	113	70	130	11	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	2	20	
Chloroform		122	ug/L	10	122	70	130	4.7	20	
Trihalomethanes, Total		443	ug/L	10	111	70	130	4.8	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	110	80	120			
Surr: Dibromofluoromethane				1.0	114	80	120			
Surr: p-Bromofluorobenzene				1.0	114	80	120			
Surr: Toluene-d8				1.0	106	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0341
Sample ID: C10071007-004DMS		Sample Matrix Spike				Run: TENNELEC-3_100812A				08/16/10 14:22
Gross Alpha minus Rn & U		25.6	pCi/L		94	70	130			
Sample ID: C10071007-004DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100812A				08/16/10 14:22
Gross Alpha minus Rn & U		25.6	pCi/L		94	70	130	0.1	24.5	
Sample ID: LCS-GA-0341		Laboratory Control Sample				Run: TENNELEC-3_100812A				08/16/10 14:22
Gross Alpha minus Rn & U		28.5	pCi/L		107	70	130			
Sample ID: MB-GA-0341	3	Method Blank				Run: TENNELEC-3_100812A				08/16/10 16:14
Gross Alpha minus Rn & U		0.5	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4695
Sample ID: C10070882-001GMS		Sample Matrix Spike				Run: G542M_100731B				08/10/10 16:08
Radium 226		18	pCi/L		106	70	130			
Sample ID: C10070882-001GMSD		Sample Matrix Spike Duplicate				Run: G542M_100731B				08/10/10 16:08
Radium 226		19	pCi/L		111	70	130	4	24	
Sample ID: MB-RA226-4695	3	Method Blank				Run: G542M_100731B				08/10/10 16:08
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4695		Laboratory Control Sample				Run: G542M_100731B				08/10/10 16:08
Radium 226		8.4	pCi/L		108	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1213
Sample ID: LCS-RA-TH-ISO-1213		Laboratory Control Sample				Run: EGG-ORTEC_100728A				07/29/10 16:32
Thorium 230		5.06	pCi/L		94	70	130			
Sample ID: C10070882-003GMS		Sample Matrix Spike				Run: EGG-ORTEC_100728A				07/29/10 16:32
Thorium 230		15.2	pCi/L		106	70	130			
Sample ID: C10070882-003GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100728A				07/29/10 16:32
Thorium 230		12.9	pCi/L		90	70	130	16	39.6	
Sample ID: MB-RA-TH-ISO-1213	3	Method Blank				Run: EGG-ORTEC_100728A				07/30/10 09:00
Thorium 230		-0.03	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: PB-210-0744
Sample ID: MB-PB-210-0744	3	Method Blank				Run: PACKARD 3100TR_100728A				08/12/10 02:36
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		2	pCi/L							
Lead 210 MDC		3	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: PACKARD 3100TR_100728A				08/13/10 17:44
Lead 210		110	pCi/L		96	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_100728A				08/13/10 19:47
Lead 210		110	pCi/L		101	70	130	4.9	19.5	
Sample ID: LCS-PB-210-0744		Laboratory Control Sample				Run: PACKARD 3100TR_100728A				08/13/10 21:51
Lead 210		45	pCi/L		82	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 08/31/10
Work Order: C10070882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3302
Sample ID: LCS-228-RA226-4695		Laboratory Control Sample				Run: TENNELEC-3_100731A			08/05/10 13:19	
Radium 228		8.5	pCi/L		113	70	130			
Sample ID: MB-RA226-4695	3	Method Blank				Run: TENNELEC-3_100731A			08/05/10 13:20	
Radium 228		-0.02	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10070882-007GMS		Sample Matrix Spike				Run: TENNELEC-3_100731A			08/05/10 13:20	
Radium 228		15	pCi/L		104	70	130			
Sample ID: C10070882-007GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100731A			08/05/10 13:20	
Radium 228		17	pCi/L		111	70	130	6.6	34.8	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

August 22, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070630 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corporation on 7/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070630-001	613	07/13/10 14:05	07/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10070630-002	EPA-14	07/13/10 14:50	07/16/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.08.22 15:07:45 -06:00

CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10070630

Report Date: 08/22/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R135260
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100723A				07/23/10 14:08
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100723A				07/23/10 14:24
Alkalinity, Total as CaCO3		208	mg/L	5.0	104	90	110			
Sample ID: C10070633-001ADUP	2	Sample Duplicate				Run: MANTECH_100723A				07/23/10 21:25
Alkalinity, Total as CaCO3		202	mg/L	5.0				0.2	10	
Bicarbonate as HCO3		245	mg/L	5.0				0	10	
Sample ID: C10070633-001AMS		Sample Matrix Spike				Run: MANTECH_100723A				07/23/10 21:33
Alkalinity, Total as CaCO3		331	mg/L	5.0	104	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100716_1_SLDS-TDS-W	
Sample ID: MBLK1_100716		Method Blank				Run: BAL-1_100716A			07/16/10 16:14	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100716		Laboratory Control Sample				Run: BAL-1_100716A			07/16/10 16:14	
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C10070632-001AMS		Sample Matrix Spike				Run: BAL-1_100716A			07/16/10 16:27	
Solids, Total Dissolved TDS @ 180 C		3790	mg/L	17	95	90	110			
Sample ID: C10070632-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100716A			07/16/10 16:27	
Solids, Total Dissolved TDS @ 180 C		3760	mg/L	17	94	90	110	1	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 26735
Sample ID: MB-26735		Method Blank				Run: CVAA-C202_100727C				07/27/10 15:38
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26735		Laboratory Control Sample				Run: CVAA-C202_100727C				07/27/10 15:40
Selenium-IV		0.0504	mg/L	0.0010	101	90	110			
Sample ID: C10070630-001CMS		Sample Matrix Spike				Run: CVAA-C202_100727C				07/27/10 15:47
Selenium-IV		0.0472	mg/L	0.0010	93	85	115			
Sample ID: C10070630-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100727C				07/27/10 15:50
Selenium-IV		0.0466	mg/L	0.0010	92	85	115	1.3	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100719A		
Sample ID: ICV1_100719_1		Initial Calibration Verification Standard							07/19/10 10:52	
pH		6.73	s.u.	0.010	98	98	102			
Method: A4500-H B								Batch: 100719_1_PH-W_555A-2		
Sample ID: C10070628-010ADUP		Sample Duplicate				Run: ORION555A-2_100719A			07/19/10 11:24	
pH		7.39	s.u.	0.010				0.8	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R135849
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_100809A				08/09/10 11:23
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_100809A				08/09/10 11:25
Nitrogen, Ammonia as N		19.0	mg/L	0.50	95	80	120			
Sample ID: C10071018-002BMS	Sample Matrix Spike					Run: TECHNICON_100809A				08/09/10 12:07
Nitrogen, Ammonia as N		2.03	mg/L	0.050	101	80	120			
Sample ID: C10071018-002BMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_100809A				08/09/10 12:09
Nitrogen, Ammonia as N		2.11	mg/L	0.050	105	80	120	3.9	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R64046
Sample ID: ICB_13r		Method Blank				Run: SUB-H64046				07/28/10 13:13
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100728-LFB		Laboratory Control Sample				Run: SUB-H64046				07/28/10 13:20
Arsenic-III		51.1	ug/L	5.0	102	90	110			
Sample ID: H10070294-011E MS		Sample Matrix Spike				Run: SUB-H64046				07/28/10 13:32
Arsenic-III		51.8	ug/L	5.0	104	55	146			
Sample ID: H10070294-011E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64046				07/28/10 13:38
Arsenic-III		52.9	ug/L	5.0	106	55	146	2.1	20	
Sample ID: H10070294-015E DUP		Sample Duplicate				Run: SUB-H64046				07/28/10 14:09
Arsenic-III		ND	ug/L	5.0					20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135436
Sample ID: MB-100728A	6	Method Blank				Run: ICP2-C_100728A				07/28/10 12:44
Aluminum		ND	mg/L	0.01						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100728A	6	Laboratory Fortified Blank				Run: ICP2-C_100728A				07/28/10 12:48
Aluminum		0.988	mg/L	0.10	99	85	115			
Calcium		51.1	mg/L	0.50	102	85	115			
Magnesium		50.6	mg/L	0.50	101	85	115			
Manganese		1.00	mg/L	0.010	100	85	115			
Potassium		48.2	mg/L	0.50	96	85	115			
Sodium		49.6	mg/L	0.50	99	85	115			
Sample ID: C10070630-002BMS2	6	Sample Matrix Spike				Run: ICP2-C_100728A				07/28/10 19:48
Aluminum		109	mg/L	0.13		70	130			A
Calcium		990	mg/L	2.3	99	70	130			
Magnesium		1100	mg/L	1.0	103	70	130			
Manganese		26.4	mg/L	0.010	97	70	130			
Potassium		484	mg/L	1.0	93	70	130			
Sodium		673	mg/L	2.9	97	70	130			
Sample ID: C10070630-002BMSD	6	Sample Matrix Spike Duplicate				Run: ICP2-C_100728A				07/28/10 19:52
Aluminum		105	mg/L	0.13		70	130	3.7	20	A
Calcium		997	mg/L	2.3	100	70	130	0.6	20	
Magnesium		1080	mg/L	1.0	100	70	130	1.5	20	
Manganese		26.1	mg/L	0.010	93	70	130	1.4	20	
Potassium		479	mg/L	1.0	92	70	130	1	20	
Sodium		674	mg/L	2.9	98	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R135246
Sample ID: LRB	9	Method Blank				Run: ICPMS2-C_100723A			07/23/10 16:33	
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Cobalt		ND	mg/L	2E-05						
Lead		ND	mg/L	3E-05						
Manganese		5E-05	mg/L	5E-05						
Molybdenum		0.0007	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Uranium		2E-05	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS2-C_100723A			07/23/10 16:40	
Beryllium		0.052	mg/L	0.0010	103	85	115			
Cadmium		0.050	mg/L	0.0010	101	85	115			
Cobalt		0.050	mg/L	0.0010	100	85	115			
Lead		0.051	mg/L	0.0010	102	85	115			
Manganese		0.049	mg/L	0.0010	98	85	115			
Molybdenum		0.051	mg/L	0.0010	100	85	115			
Nickel		0.051	mg/L	0.0010	103	85	115			
Uranium		0.049	mg/L	0.00030	98	85	115			
Vanadium		0.049	mg/L	0.0010	98	85	115			
Sample ID: C10070719-012BMS4	9	Sample Matrix Spike				Run: ICPMS2-C_100723A			07/23/10 21:11	
Beryllium		0.0519	mg/L	0.010	104	70	130			
Cadmium		0.0506	mg/L	0.010	101	70	130			
Cobalt		0.0560	mg/L	0.010	92	70	130			
Lead		0.0513	mg/L	0.050	103	70	130			
Manganese		0.310	mg/L	0.010		70	130			A
Molybdenum		0.0512	mg/L	0.0010	102	70	130			
Nickel		0.0634	mg/L	0.050	98	70	130			
Uranium		3.29	mg/L	0.00030		70	130			A
Vanadium		0.0525	mg/L	0.0010	96	70	130			
Sample ID: C10070719-012BMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100723A			07/23/10 21:18	
Beryllium		0.0514	mg/L	0.010	103	70	130	1.1	20	
Cadmium		0.0506	mg/L	0.010	101	70	130	0.1	20	
Cobalt		0.0554	mg/L	0.010	91	70	130	1.1	20	
Lead		0.0506	mg/L	0.050	101	70	130	1.3	20	
Manganese		0.305	mg/L	0.010		70	130	1.5	20	A
Molybdenum		0.0514	mg/L	0.0010	102	70	130	0.4	20	
Nickel		0.0626	mg/L	0.050	96	70	130	1.3	20	
Uranium		3.24	mg/L	0.00030		70	130	1.6	20	A
Vanadium		0.0519	mg/L	0.0010	94	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135134
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100719A				07/19/10 17:42
Chloride		9.54	mg/L	1.0	95	90	110			
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100719A				07/19/10 17:58
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: C10070633-001AMS	2	Sample Matrix Spike				Run: IC2-C_100719A				07/20/10 13:30
Chloride		12.4	mg/L	1.0	103	80	120			
Sulfate		64.2	mg/L	1.0	104	80	120			
Sample ID: C10070633-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100719A				07/20/10 13:47
Chloride		12.6	mg/L	1.0	104	80	120	1	20	
Sulfate		65.1	mg/L	1.0	106	80	120	1.3	20	
Method: E300.0										Batch: R135566
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100728A				07/28/10 13:06
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100728A				07/28/10 13:22
Sulfate		ND	mg/L	0.04						
Sample ID: C10070676-002AMS		Sample Matrix Spike				Run: IC2-C_100728A				07/28/10 15:17
Sulfate		453	mg/L	8.0	99	80	120			
Sample ID: C10070676-002AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100728A				07/28/10 15:34
Sulfate		451	mg/L	8.0	99	80	120	0.4	20	

Qualifiers:
RL - Analyte reporting limit.
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ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R135289
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100726A				07/26/10 14:49
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100726A				07/26/10 14:51
Nitrogen, Nitrate+Nitrite as N		2.56	mg/L	0.10	102	90	110			
Sample ID: C10070651-001CMS		Sample Matrix Spike				Run: TECHNICON_100726A				07/26/10 18:19
Nitrogen, Nitrate+Nitrite as N		2.72	mg/L	0.10	100	90	110			
Sample ID: C10070651-001CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100726A				07/26/10 18:21
Nitrogen, Nitrate+Nitrite as N		2.70	mg/L	0.10	99	90	110	0.7	10	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135047
Sample ID: 19-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100719A				07/19/10 13:02
Bromodichloromethane		9.72	ug/L	1.0	97	70	130			
Bromoform		10.0	ug/L	1.0	100	70	130			
Chlorodibromomethane		9.40	ug/L	1.0	94	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		39.3	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	105	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: 19-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100719A				07/19/10 14:48
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	101	80	120			
Surr: p-Bromofluorobenzene				1.0	117	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070623-011HMS	9	Sample Matrix Spike				Run: GCMS2_100719A				07/19/10 22:24
Bromodichloromethane		98.4	ug/L	10	98	70	130			
Bromoform		94.0	ug/L	10	94	70	130			
Chlorodibromomethane		91.2	ug/L	10	91	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		392	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: C10070623-011HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100719A				07/19/10 22:59
Bromodichloromethane		102	ug/L	10	102	70	130	3.6	20	
Bromoform		98.4	ug/L	10	98	70	130	4.6	20	
Chlorodibromomethane		96.0	ug/L	10	96	70	130	5.1	20	
Chloroform		110	ug/L	10	110	70	130	1.5	20	
Trihalomethanes, Total		407	ug/L	10	102	70	130	3.6	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	106	80	120			

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0338
Sample ID: MB-GA-0338	3	Method Blank				Run: G5000W_100802A				08/04/10 17:22
Gross Alpha minus Rn & U		-0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0338		Laboratory Control Sample				Run: G5000W_100802A				08/04/10 17:22
Gross Alpha minus Rn & U		27.9	pCi/L		106	70	130			
Sample ID: C10070662-001IMS		Sample Matrix Spike				Run: G5000W_100802A				08/04/10 17:23
Gross Alpha minus Rn & U		27.8	pCi/L		101	70	130			
Sample ID: C10070662-001IMSD		Sample Matrix Spike Duplicate				Run: G5000W_100802A				08/04/10 17:23
Gross Alpha minus Rn & U		28.7	pCi/L		105	70	130	3.2	25.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4672
Sample ID: C10070595-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719G				08/03/10 01:51
Radium 226		15.4	pCi/L		93	70	130			
Sample ID: C10070595-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719G				08/03/10 01:51
Radium 226		14.2	pCi/L		86	70	130	7.8	23	
Sample ID: LCS-RA226-4672		Laboratory Control Sample				Run: TENNELEC-3_100719G				08/03/10 01:51
Radium 226		7.9	pCi/L		99	70	130			
Sample ID: MB-RA226-4672	3	Method Blank				Run: TENNELEC-3_100719G				08/03/10 01:51
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1210	
Sample ID: LCS-RA-TH-ISO-1210		Laboratory Control Sample				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		4.84	pCi/L		92	70	130			
Sample ID: C10070631-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		11.6	pCi/L		92	70	130			
Sample ID: C10070631-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100720A			07/21/10 16:18	
Thorium 230		13.5	pCi/L		102	70	130	15	31.9	
Sample ID: MB-RA-TH-ISO-1210	3	Method Blank				Run: EGG-ORTEC_100720A			07/22/10 08:58	
Thorium 230		0.002	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0741	
Sample ID: MB-PB-210-0741	3	Method Blank				Run: BECKMAN 6100TA_100721B			07/26/10 14:39	
Lead 210		-0.7	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: BECKMAN 6100TA_100721B			07/26/10 18:42	
Lead 210		40	pCi/L		73	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100721B			07/26/10 20:44	
Lead 210		45	pCi/L		82	70	130	12	17	
Sample ID: LCS-PB-210-0741		Laboratory Control Sample				Run: BECKMAN 6100TA_100721B			07/28/10 11:13	
Lead 210		10	pCi/L		20	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070630

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3287
Sample ID: LCS-228-RA226-4672		Laboratory Control Sample				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		7.2	pCi/L		95	70	130			
Sample ID: MB-RA226-4672	3	Method Blank				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		0.03	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10070595-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		13	pCi/L		86	70	130			
Sample ID: C10070595-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100719B			07/28/10 17:36	
Radium 228		14	pCi/L		93	70	130	8.1	37.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

September 20, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070881 Quote ID: C129 - Quarterly Long List
Project Name: Zone 3

Energy Laboratories, Inc. received the following 10 samples for United Nuclear Corporation on 7/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070881-001	517	07/19/10 13:00	07/23/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10070881-002	708	07/19/10 14:00	07/23/10	Aqueous	Same As Above
C10070881-003	711	07/19/10 14:50	07/23/10	Aqueous	Same As Above
C10070881-004	711 Duplicate	07/19/10 15:40	07/23/10	Aqueous	Same As Above
C10070881-005	EPA-13	07/20/10 08:50	07/23/10	Aqueous	Same As Above
C10070881-006	719	07/20/10 09:25	07/23/10	Aqueous	Same As Above
C10070881-007	420	07/20/10 10:25	07/23/10	Aqueous	Same As Above
C10070881-008	717	07/20/10 11:00	07/23/10	Aqueous	Same As Above
C10070881-009	NBL-1	07/20/10 13:10	07/23/10	Aqueous	Same As Above
C10070881-010	504-B	07/20/10 14:35	07/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D Waldrop
Reporting Supervisor

Digitally signed by Stephanie Waldrop
Date: 2010.09.20 17:40:54 -06:00

CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10070881

Report Date: 09/20/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: R135455	
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100728A			07/28/10 13:20	
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100728A			07/28/10 13:36	
Alkalinity, Total as CaCO3		206	mg/L	5.0	103	90	110			
Sample ID: C10070913-004ADUP		Sample Duplicate				Run: MANTECH_100728A			07/28/10 22:18	
Alkalinity, Total as CaCO3		412	mg/L	5.0				0.4	10	
Sample ID: C10070913-004AMS		Sample Matrix Spike				Run: MANTECH_100728A			07/28/10 22:27	
Alkalinity, Total as CaCO3		541	mg/L	5.0	104	80	120			

Qualifiers:
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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100723_2_SLDS-TDS-W	
Sample ID: MBLK1_100723		Method Blank				Run: BAL-1_100723B			07/23/10 17:27	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100723		Laboratory Control Sample				Run: BAL-1_100723B			07/23/10 17:27	
Solids, Total Dissolved TDS @ 180 C		975	mg/L	10	98	90	110			
Sample ID: C10070881-005AMS		Sample Matrix Spike				Run: BAL-1_100723B			07/23/10 17:37	
Solids, Total Dissolved TDS @ 180 C		10300	mg/L	16	105	90	110			
Sample ID: C10070881-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100723B			07/23/10 17:37	
Solids, Total Dissolved TDS @ 180 C		10300	mg/L	17	100	90	110	0.6	10	
Sample ID: C10070882-005AMS		Sample Matrix Spike				Run: BAL-1_100723B			07/23/10 17:39	
Solids, Total Dissolved TDS @ 180 C		5010	mg/L	10	101	90	110			
Sample ID: C10070882-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100723B			07/23/10 17:39	
Solids, Total Dissolved TDS @ 180 C		4960	mg/L	10	98	90	110	1.1	10	
Method: A2540 C									Batch: 100728_1_SLDS-TDS-W	
Sample ID: MBLK1_100728		Method Blank				Run: BAL-1_100728A			07/28/10 16:01	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100728		Laboratory Control Sample				Run: BAL-1_100728A			07/28/10 16:01	
Solids, Total Dissolved TDS @ 180 C		996	mg/L	10	100	90	110			
Sample ID: C10070882-002AMS		Sample Matrix Spike				Run: BAL-1_100728A			07/28/10 16:04	
Solids, Total Dissolved TDS @ 180 C		7780	mg/L	14	98	90	110			
Sample ID: C10070882-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100728A			07/28/10 16:04	
Solids, Total Dissolved TDS @ 180 C		7840	mg/L	14	100	90	110	0.8	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 26955
Sample ID: MB-26955		Method Blank				Run: CVAA-C202_100805B				08/05/10 14:05
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-26955		Laboratory Control Sample				Run: CVAA-C202_100805B				08/05/10 14:07
Selenium-IV		0.0529	mg/L	0.0010	106	90	110			
Sample ID: C10070881-001CMS		Sample Matrix Spike				Run: CVAA-C202_100805B				08/05/10 14:14
Selenium-IV		0.0455	mg/L	0.0010	91	85	115			
Sample ID: C10070881-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100805B				08/05/10 14:16
Selenium-IV		0.0433	mg/L	0.0010	87	85	115	4.8	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100723B		
Sample ID: ICV1_100723_2		Initial Calibration Verification Standard							07/23/10 15:01	
pH		6.72	s.u.	0.010	98	98	102			
Method: A4500-H B								Batch: 100723_2_PH-W_555A-2		
Sample ID: C10070881-004ADUP		Sample Duplicate				Run: ORION555A-2_100723B			07/23/10 15:42	
pH		4.77	s.u.	0.010				3.6	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R136103
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100816A				08/16/10 11:34
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100816A				08/16/10 11:36
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10080123-001DMS		Sample Matrix Spike				Run: TECHNICON_100816A				08/16/10 11:48
Nitrogen, Ammonia as N		1.92	mg/L	0.050	96	80	120			
Sample ID: C10080123-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100816A				08/16/10 11:50
Nitrogen, Ammonia as N		1.97	mg/L	0.050	99	80	120	2.6	20	
Sample ID: C10070976-001EMS		Sample Matrix Spike				Run: TECHNICON_100816A				08/16/10 12:18
Nitrogen, Ammonia as N		1.98	mg/L	0.050	99	80	120			
Sample ID: C10070976-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100816A				08/16/10 12:20
Nitrogen, Ammonia as N		1.99	mg/L	0.050	100	80	120	0.5	20	
Sample ID: C10080074-007AMS		Sample Matrix Spike				Run: TECHNICON_100816A				08/16/10 12:50
Nitrogen, Ammonia as N		2.00	mg/L	0.050	100	80	120			
Sample ID: C10080074-007AMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100816A				08/16/10 12:52
Nitrogen, Ammonia as N		2.00	mg/L	0.050	100	80	120	0	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R64046
Sample ID: ICB_13r		Method Blank				Run: SUB-H64046				07/28/10 13:13
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100728-LFB		Laboratory Control Sample				Run: SUB-H64046				07/28/10 13:20
Arsenic-III		51.1	ug/L	5.0	102	90	110			
Sample ID: H10070294-011E MS		Sample Matrix Spike				Run: SUB-H64046				07/28/10 13:32
Arsenic-III		51.8	ug/L	5.0	104	55	146			
Sample ID: H10070294-011E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64046				07/28/10 13:38
Arsenic-III		52.9	ug/L	5.0	106	55	146	2.1	20	
Method: E1632AM										Batch: H_R64081
Sample ID: ICB_13r		Method Blank				Run: SUB-H64081				07/29/10 10:39
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100729-LFB		Laboratory Control Sample				Run: SUB-H64081				07/29/10 10:45
Arsenic-III		46.1	ug/L	5.0	92	90	110			
Sample ID: H10070394-001E MS		Sample Matrix Spike				Run: SUB-H64081				07/29/10 11:10
Arsenic-III		48.2	ug/L	5.0	96	55	146			
Sample ID: H10070394-001E MSD		Sample Matrix Spike Duplicate				Run: SUB-H64081				07/29/10 11:16
Arsenic-III		45.0	ug/L	5.0	90	55	146	6.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R135534
Sample ID: MB-100729A	4	Method Blank				Run: ICP2-C_100729A				07/29/10 13:58
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100729A	4	Laboratory Fortified Blank				Run: ICP2-C_100729A				07/29/10 14:02
Calcium		50.3	mg/L	0.50	101	85	115			
Magnesium		50.6	mg/L	0.50	101	85	115			
Potassium		45.4	mg/L	0.50	91	85	115			
Sodium		47.2	mg/L	0.50	94	85	115			
Sample ID: C10070881-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100729A				07/30/10 09:39
Calcium		658	mg/L	1.1	85	70	130			
Magnesium		692	mg/L	1.0	92	70	130			
Potassium		232	mg/L	1.0	87	70	130			
Sodium		377	mg/L	1.4	93	70	130			
Sample ID: C10070881-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100729A				07/30/10 09:43
Calcium		695	mg/L	1.1	99	70	130	5.4	20	
Magnesium		723	mg/L	1.0	104	70	130	4.3	20	
Potassium		240	mg/L	1.0	90	70	130	3.4	20	
Sodium		390	mg/L	1.4	98	70	130	3.3	20	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 26844
Sample ID: MB-26844	2	Method Blank				Run: ICP2-C_100802A				08/02/10 17:35
Aluminum		ND	mg/L	0.01						
Manganese		ND	mg/L	0.0008						
Sample ID: LCS3-26844	2	Laboratory Control Sample				Run: ICP2-C_100802A				08/02/10 17:39
Aluminum		2.62	mg/L	0.10	105	85	115			
Manganese		2.51	mg/L	0.010	101	85	115			
Sample ID: C10070948-001CMS3	2	Sample Matrix Spike				Run: ICP2-C_100802A				08/02/10 19:07
Aluminum		95.0	mg/L	0.12		70	130			A
Manganese		20.2	mg/L	0.010		70	130			A
Sample ID: C10070948-001CMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-C_100802A				08/02/10 19:12
Aluminum		97.4	mg/L	0.12		70	130	2.5	20	A
Manganese		20.3	mg/L	0.010		70	130	0.2	20	A
Method: E200.7										Batch: R135591
Sample ID: MB-100802A	2	Method Blank				Run: ICP2-C_100802A				08/02/10 12:52
Aluminum		ND	mg/L	0.01						
Manganese		ND	mg/L	0.0004						
Sample ID: LFB-100802A	2	Laboratory Fortified Blank				Run: ICP2-C_100802A				08/02/10 12:56
Aluminum		0.983	mg/L	0.10	98	85	115			
Manganese		0.978	mg/L	0.010	98	85	115			
Sample ID: C10070913-006BMS2	2	Sample Matrix Spike				Run: ICP2-C_100802A				08/02/10 15:01
Aluminum		5.09	mg/L	0.10	100	70	130			
Manganese		9.66	mg/L	0.010	94	70	130			
Sample ID: C10070913-006BMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-C_100802A				08/02/10 15:05
Aluminum		4.91	mg/L	0.10	96	70	130	3.7	20	
Manganese		9.82	mg/L	0.010	97	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 26844
Sample ID: C10070948-001CMS3	9	Sample Matrix Spike				Run: ICPMS2-C_100728B			07/28/10 15:07	
Beryllium		0.251	mg/L	0.010	95	70	130			
Cadmium		0.312	mg/L	0.010	99	70	130			
Cobalt		0.845	mg/L	0.010	99	70	130			
Lead		0.578	mg/L	0.050	108	70	130			
Manganese		18.9	mg/L	0.010		70	130			A
Molybdenum		0.545	mg/L	0.10	109	70	130			
Nickel		0.864	mg/L	0.050	96	70	130			
Uranium		0.584	mg/L	0.00030	114	70	130			
Vanadium		0.518	mg/L	0.10	103	70	130			
Sample ID: C10070948-001CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100728B			07/28/10 15:14	
Beryllium		0.258	mg/L	0.010	98	70	130	2.7	20	
Cadmium		0.318	mg/L	0.010	102	70	130	2	20	
Cobalt		0.873	mg/L	0.010	104	70	130	3.2	20	
Lead		0.593	mg/L	0.050	111	70	130	2.5	20	
Manganese		19.4	mg/L	0.010		70	130	2.7	20	A
Molybdenum		0.556	mg/L	0.10	111	70	130	2	20	
Nickel		0.893	mg/L	0.050	102	70	130	3.4	20	
Uranium		0.602	mg/L	0.00030	118	70	130	3.1	20	
Vanadium		0.529	mg/L	0.10	105	70	130	2.2	20	
Sample ID: MB-26844	9	Method Blank				Run: ICPMS2-C_100728B			07/28/10 13:20	
Beryllium		5E-05	mg/L	2E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		5E-05	mg/L	5E-05						
Manganese		ND	mg/L	9E-05						
Molybdenum		0.0002	mg/L	0.0001						
Nickel		0.0002	mg/L	8E-05						
Uranium		7E-05	mg/L	4E-05						
Vanadium		0.003	mg/L	0.0005						
Sample ID: LCS3-26844	9	Laboratory Control Sample				Run: ICPMS2-C_100728B			07/28/10 13:27	
Beryllium		0.277	mg/L	0.010	111	85	115			
Cadmium		0.253	mg/L	0.010	101	85	115			
Cobalt		0.500	mg/L	0.010	100	85	115			
Lead		0.531	mg/L	0.050	106	85	115			
Manganese		2.46	mg/L	0.010	98	85	115			
Molybdenum		0.537	mg/L	0.10	107	85	115			
Nickel		0.487	mg/L	0.050	97	85	115			
Uranium		0.551	mg/L	0.00030	110	85	115			
Vanadium		0.512	mg/L	0.10	102	85	115			
Method: E200.8										Batch: R135440

Qualifiers:

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MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R135440
Sample ID: LRB	8	Method Blank				Run: ICPMS2-C_100728B				07/28/10 11:26
Beryllium		3E-05	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Cobalt		ND	mg/L	2E-05						
Lead		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	8	Laboratory Fortified Blank				Run: ICPMS2-C_100728B				07/28/10 11:32
Beryllium		0.0490	mg/L	0.0010	98	85	115			
Cadmium		0.0504	mg/L	0.0010	101	85	115			
Cobalt		0.0485	mg/L	0.0010	97	85	115			
Lead		0.0499	mg/L	0.0010	100	85	115			
Molybdenum		0.0500	mg/L	0.0010	100	85	115			
Nickel		0.0510	mg/L	0.0010	102	85	115			
Uranium		0.0486	mg/L	0.00030	97	85	115			
Vanadium		0.0482	mg/L	0.0010	96	85	115			
Sample ID: C10061101-002CMS4	8	Sample Matrix Spike				Run: ICPMS2-C_100728B				07/28/10 18:24
Beryllium		0.0527	mg/L	0.010	105	70	130			
Cadmium		0.0504	mg/L	0.010	101	70	130			
Cobalt		0.0484	mg/L	0.010	97	70	130			
Lead		0.0510	mg/L	0.050	102	70	130			
Molybdenum		0.0547	mg/L	0.0010	102	70	130			
Nickel		0.0493	mg/L	0.0010	97	70	130			
Uranium		0.136	mg/L	0.00030	115	70	130			
Vanadium		0.0505	mg/L	0.0010	101	70	130			
Sample ID: C10061101-002CMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100728B				07/28/10 18:31
Beryllium		0.0530	mg/L	0.010	106	70	130	0.6	20	
Cadmium		0.0510	mg/L	0.010	102	70	130	1.3	20	
Cobalt		0.0486	mg/L	0.010	97	70	130	0.5	20	
Lead		0.0506	mg/L	0.050	101	70	130	0.6	20	
Molybdenum		0.0558	mg/L	0.0010	104	70	130	1.9	20	
Nickel		0.0491	mg/L	0.0010	97	70	130	0.3	20	
Uranium		0.136	mg/L	0.00030	115	70	130	0.1	20	
Vanadium		0.0512	mg/L	0.0010	102	70	130	1.3	20	

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QA/QC Summary Report

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Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135566
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100728A				07/28/10 13:06
Chloride		9.46	mg/L	1.0	95	90	110			
Sulfate		38.1	mg/L	1.0	95	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100728A				07/28/10 13:22
Chloride		ND	mg/L	0.2						
Sulfate		ND	mg/L	0.04						
Sample ID: C10070881-005AMS	2	Sample Matrix Spike				Run: IC2-C_100728A				07/29/10 10:43
Chloride		232	mg/L	4.0	98	80	120			
Sulfate		5260	mg/L	16		80	120			A
Sample ID: C10070881-005AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100728A				07/29/10 10:59
Chloride		235	mg/L	4.0	100	80	120	1.3	20	
Sulfate		5250	mg/L	16		80	120	0.2	20	A
Method: E300.0										Batch: R135786
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100804A				08/04/10 16:34
Sulfate		38.4	mg/L	1.0	96	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100804A				08/04/10 16:50
Sulfate		ND	mg/L	0.04						
Sample ID: C10080063-003AMS		Sample Matrix Spike				Run: IC2-C_100804A				08/04/10 18:28
Sulfate		55.5	mg/L	1.0	104	80	120			
Sample ID: C10080063-003AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100804A				08/04/10 18:45
Sulfate		56.1	mg/L	1.0	105	80	120	1.1	20	
Sample ID: C10070913-003AMS		Sample Matrix Spike				Run: IC2-C_100804A				08/04/10 22:18
Sulfate		2760	mg/L	16	104	80	120			
Sample ID: C10070913-003AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100804A				08/04/10 22:35
Sulfate		2730	mg/L	16	101	80	120	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R135533
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100731A				07/31/10 12:17
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100731A				07/31/10 12:19
Nitrogen, Nitrate+Nitrite as N		2.51	mg/L	0.10	100	90	110			
Sample ID: C10070881-004DMS		Sample Matrix Spike				Run: TECHNICON_100731A				07/31/10 13:12
Nitrogen, Nitrate+Nitrite as N		2.15	mg/L	0.10	103	90	110			
Sample ID: C10070881-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100731A				07/31/10 13:14
Nitrogen, Nitrate+Nitrite as N		2.14	mg/L	0.10	103	90	110	0.5	10	
Method: E353.2										Batch: R135698
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100804A				08/04/10 10:45
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100804A				08/04/10 10:47
Nitrogen, Nitrate+Nitrite as N		2.45	mg/L	0.10	98	90	110			
Sample ID: C10071103-013AMS		Sample Matrix Spike				Run: TECHNICON_100804A				08/04/10 11:40
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110			
Sample ID: C10071103-013AMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100804A				08/04/10 11:42
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	0	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R135399
Sample ID: 26-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A			07/26/10 11:28	
Bromodichloromethane		10.3	ug/L	1.0	103	70	130			
Bromoform		10.7	ug/L	1.0	107	70	130			
Chlorodibromomethane		9.76	ug/L	1.0	98	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		42.0	ug/L	1.0	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: 26-Jul-10_MBLK_6	9	Method Blank				Run: GCMS2_100727A			07/26/10 13:15	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	111	80	120			
Surr: Dibromofluoromethane				1.0	103	80	120			
Surr: p-Bromofluorobenzene				1.0	126	80	120			S
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070881-003HMS	9	Sample Matrix Spike				Run: GCMS2_100727A			07/26/10 20:17	
Bromodichloromethane		109	ug/L	10	109	70	130			
Bromoform		107	ug/L	10	107	70	130			
Chlorodibromomethane		99.2	ug/L	10	99	70	130			
Chloroform		128	ug/L	10	128	70	130			
Trihalomethanes, Total		443	ug/L	10	111	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	115	80	120			
Surr: Dibromofluoromethane				1.0	125	80	120			S
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	108	80	120			
Sample ID: C10070881-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100727A			07/26/10 20:52	
Bromodichloromethane		108	ug/L	10	108	70	130	0.4	20	
Bromoform		110	ug/L	10	110	70	130	3.3	20	
Chlorodibromomethane		102	ug/L	10	102	70	130	2.4	20	
Chloroform		118	ug/L	10	118	70	130	8.1	20	
Trihalomethanes, Total		439	ug/L	10	110	70	130	1	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	106	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: 27-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A			07/27/10 12:12	
Bromodichloromethane		10.2	ug/L	1.0	102	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R135399	
Sample ID: 27-Jul-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100727A			07/27/10 12:12	
Bromoform		10.6	ug/L	1.0	106	70	130			
Chlorodibromomethane		9.36	ug/L	1.0	94	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		41.3	ug/L	1.0	103	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	110	80	120			
Surr: Toluene-d8				1.0	110	80	120			
Sample ID: 27-Jul-10_MBLK_7	9	Method Blank				Run: GCMS2_100727A			07/27/10 16:33	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	132	80	120			S
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10070882-004HMS	9	Sample Matrix Spike				Run: GCMS2_100727A			07/27/10 22:59	
Bromodichloromethane		106	ug/L	10	106	70	130			
Bromoform		101	ug/L	10	101	70	130			
Chlorodibromomethane		98.4	ug/L	10	98	70	130			
Chloroform		117	ug/L	10	117	70	130			
Trihalomethanes, Total		422	ug/L	10	106	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	111	80	120			
Surr: Dibromofluoromethane				1.0	114	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	108	80	120			
Sample ID: C10070882-004HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100727A			07/27/10 23:34	
Bromodichloromethane		107	ug/L	10	107	70	130	1.5	20	
Bromoform		113	ug/L	10	113	70	130	11	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	2	20	
Chloroform		122	ug/L	10	122	70	130	4.7	20	
Trihalomethanes, Total		443	ug/L	10	111	70	130	4.8	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	110	80	120			
Surr: Dibromofluoromethane				1.0	114	80	120			
Surr: p-Bromofluorobenzene				1.0	114	80	120			
Surr: Toluene-d8				1.0	106	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0340
Sample ID: MB-GA-0340	3	Method Blank				Run: G5000W_100806A				08/09/10 14:20
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0340		Laboratory Control Sample				Run: G5000W_100806A				08/09/10 14:20
Gross Alpha minus Rn & U		30.1	pCi/L		114	70	130			
Sample ID: C10070881-008GMS		Sample Matrix Spike				Run: G5000W_100806A				08/09/10 14:20
Gross Alpha minus Rn & U		48.0	pCi/L		93	70	130			
Sample ID: C10070881-008GMSD		Sample Matrix Spike Duplicate				Run: G5000W_100806A				08/09/10 14:20
Gross Alpha minus Rn & U		53.0	pCi/L		113	70	130	10	20.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4694
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: G542M_100802B				08/10/10 17:43
Radium 226		9.7	pCi/L		120	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: G542M_100802B				08/10/10 17:43
Radium 226		10	pCi/L		124	70	130	3.1	23.7	
Sample ID: MB-RA226-4694	3	Method Blank				Run: G542M_100802B				08/10/10 17:43
Radium 226		-0.06	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4694		Laboratory Control Sample				Run: G542M_100802B				08/10/10 17:43
Radium 226		9.5	pCi/L		121	70	130			
Method: E903.0										Batch: RA226-4693
Sample ID: TAP -WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_100729B				08/09/10 22:31
Radium 226		9.7	pCi/L		120	70	130			
Sample ID: TAP -WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100729B				08/09/10 22:31
Radium 226		8.3	pCi/L		101	70	130	16	22.7	
Sample ID: MB-RA226-4693	3	Method Blank				Run: TENNELEC-3_100729B				08/09/10 22:31
Radium 226		0.07	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4693		Laboratory Control Sample				Run: TENNELEC-3_100729B				08/09/10 22:31
Radium 226		8.8	pCi/L		111	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1213	
Sample ID: LCS-RA-TH-ISO-1213		Laboratory Control Sample				Run: EGG-ORTEC_100728A			07/29/10 16:32	
Thorium 230		5.06	pCi/L		94	70	130			
Sample ID: C10070882-003GMS		Sample Matrix Spike				Run: EGG-ORTEC_100728A			07/29/10 16:32	
Thorium 230		15.2	pCi/L		106	70	130			
Sample ID: C10070882-003GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100728A			07/29/10 16:32	
Thorium 230		12.9	pCi/L		90	70	130	16	39.6	
Sample ID: MB-RA-TH-ISO-1213	3	Method Blank				Run: EGG-ORTEC_100728A			07/30/10 09:00	
Thorium 230		-0.03	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E907.0									Batch: RA-TH-ISO-1217	
Sample ID: LCS-RA-TH-ISO-1217		Laboratory Control Sample				Run: EGG-ORTEC_100802A			08/04/10 08:46	
Thorium 230		4.7	pCi/L		92	70	130			
Sample ID: C10071135-014CMS		Sample Matrix Spike				Run: EGG-ORTEC_100802A			08/04/10 08:46	
Thorium 230		12	pCi/L		90	70	130			
Sample ID: C10071135-014CMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100802A			08/04/10 14:01	
Thorium 230		15	pCi/L		99	70	130	20	49.2	
Sample ID: MB-RA-TH-ISO-1217	3	Method Blank				Run: EGG-ORTEC_100802A			08/04/10 14:01	
Thorium 230		-0.002	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: PB-210-0744
Sample ID: MB-PB-210-0744	3	Method Blank				Run: PACKARD 3100TR_100728A				08/12/10 02:36
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		2	pCi/L							
Lead 210 MDC		3	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: PACKARD 3100TR_100728A				08/13/10 17:44
Lead 210		110	pCi/L		96	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_100728A				08/13/10 19:47
Lead 210		110	pCi/L		101	70	130	4.9	19.5	
Sample ID: LCS-PB-210-0744		Laboratory Control Sample				Run: PACKARD 3100TR_100728A				08/13/10 21:51
Lead 210		45	pCi/L		82	70	130			
Method: E909.0M										Batch: T_PB-210-0007
Sample ID: MB-PB-210-0007	3	Method Blank				Run: SUB-T36837				09/13/10 17:44
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0007		Laboratory Control Sample				Run: SUB-T36837				09/13/10 20:08
Lead 210		65	pCi/L		118	70	130			
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: SUB-T36837				09/14/10 02:31
Lead 210		130	pCi/L		116	70	130			
No original Tap Water was ran so the MD and MSD recoveries use the MB as a reference.										
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: SUB-T36837				09/14/10 04:43
Lead 210		130	pCi/L		121	70	130	4.5	16.7	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 09/20/10
Work Order: C10070881

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3301
Sample ID: LCS-228-RA226-4693		Laboratory Control Sample				Run: TENNELEC-3_100729A			08/04/10 12:10	
Radium 228		7.9	pCi/L		107	70	130			
Sample ID: MB-RA226-4693	3	Method Blank				Run: TENNELEC-3_100729A			08/04/10 12:09	
Radium 228		-0.2	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: TAP -WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_100729A			08/04/10 12:09	
Radium 228		6.4	pCi/L		77	70	130			
Sample ID: TAP -WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100729A			08/04/10 12:09	
Radium 228		6.5	pCi/L		78	70	130	1.5	38	
Method: RA-05										Batch: RA228-3304
Sample ID: LCS-228-RA226-4694		Laboratory Control Sample				Run: TENNELEC-3_100802B			08/05/10 18:49	
Radium 228		6.2	pCi/L		85	70	130			
Sample ID: MB-RA226-4694	3	Method Blank				Run: TENNELEC-3_100802B			08/05/10 18:49	
Radium 228		-0.3	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_100802B			08/05/10 18:49	
Radium 228		6.1	pCi/L		82	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100802B			08/05/10 18:49	
Radium 228		5.4	pCi/L		72	70	130	13	39.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

August 22, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10070880

Project Name: Zone 3

Energy Laboratories, Inc. received the following 10 samples for United Nuclear Corporation on 7/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10070880-001	NBL-2	07/20/10 12:15	07/23/10	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10070880-002	PB-3	07/20/10 13:55	07/23/10	Aqueous	Same As Above
C10070880-003	PB-4	07/20/10 14:10	07/23/10	Aqueous	Same As Above
C10070880-004	PB-2	07/21/10 09:35	07/23/10	Aqueous	Same As Above
C10070880-005	NW-2	07/21/10 09:50	07/23/10	Aqueous	Same As Above
C10070880-006	NW-5	07/21/10 10:05	07/23/10	Aqueous	Same As Above
C10070880-007	NW-3	07/21/10 10:20	07/23/10	Aqueous	Same As Above
C10070880-008	RW-A	07/21/10 10:30	07/23/10	Aqueous	Same As Above
C10070880-009	NW-4	07/21/10 10:45	07/23/10	Aqueous	Same As Above
C10070880-010	NW-1	07/21/10 11:00	07/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.08.22 14:24:12 -06:00

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070880

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R135455
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100728A				07/28/10 13:20
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100728A				07/28/10 13:36
Alkalinity, Total as CaCO3		206	mg/L	5.0	103	90	110			
Sample ID: C10070880-001ADUP	2	Sample Duplicate				Run: MANTECH_100728A				07/28/10 17:44
Alkalinity, Total as CaCO3		334	mg/L	5.0				0.6	10	
Bicarbonate as HCO3		407	mg/L	5.0				0.6	10	
Sample ID: C10070880-010ADUP	2	Sample Duplicate				Run: MANTECH_100728A				07/28/10 19:03
Alkalinity, Total as CaCO3		115	mg/L	5.0				0.3	10	
Bicarbonate as HCO3		140	mg/L	5.0				0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070880

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100727_1_SLDS-TDS-W	
Sample ID: MBLK1_100727		Method Blank				Run: BAL-1_100727C			07/27/10 14:49	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100727		Laboratory Control Sample				Run: BAL-1_100727C			07/27/10 14:49	
Solids, Total Dissolved TDS @ 180 C		995	mg/L	10	99	90	110			
Sample ID: C10070880-008AMS		Sample Matrix Spike				Run: BAL-1_100727C			07/27/10 14:54	
Solids, Total Dissolved TDS @ 180 C		6110	mg/L	10	104	90	110			
Sample ID: C10070880-008AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100727C			07/27/10 14:55	
Solids, Total Dissolved TDS @ 180 C		6040	mg/L	10	101	90	110	1.1	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070880

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_100726A	
Sample ID: ICV1_100726_1		Initial Calibration Verification Standard							07/26/10 10:12	
pH		6.72	s.u.	0.010	98	98	102			
Method: A4500-H B									Batch: 100726_1_PH-W_555A-2	
Sample ID: C10070879-003ADUP		Sample Duplicate				Run: ORION555A-2_100726A			07/26/10 10:57	
pH		7.51	s.u.	0.010				0	10	
Sample ID: C10070880-007ADUP		Sample Duplicate				Run: ORION555A-2_100726A			07/26/10 11:34	
pH		6.87	s.u.	0.010				1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/22/10
Work Order: C10070880

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R135566
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100728A				07/28/10 13:06
Chloride		9.46	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100728A				07/28/10 13:22
Chloride		ND	mg/L	0.2						
Sample ID: C10070880-005AMS		Sample Matrix Spike				Run: IC2-C_100728A				07/29/10 06:53
Chloride		242	mg/L	4.0	101	80	120			
Sample ID: C10070880-005AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100728A				07/29/10 07:09
Chloride		243	mg/L	4.0	101	80	120	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

ANALYTICAL SUMMARY REPORT

October 11, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10090864 Quote ID: C129 - Quarterly Long List

Project Name: Not Indicated

Energy Laboratories, Inc. received the following 1 sample for United Nuclear Corporation on 9/22/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10090864-001	Domestic Water Well	09/20/10 13:58	09/22/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

CLIENT: United Nuclear Corporation
Project: Not Indicated
Sample Delivery Group: C10090864

Report Date: 10/11/10

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R137570
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100922B				09/22/10 16:56
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		1	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100922B				09/22/10 17:12
Alkalinity, Total as CaCO3		210	mg/L	5.0	105	90	110			
Sample ID: C10090851-003ADUP		Sample Duplicate				Run: MANTECH_100922B				09/22/10 17:44
Alkalinity, Total as CaCO3		69.0	mg/L	5.0				0.7	10	
Sample ID: C10090859-001AMS		Sample Matrix Spike				Run: MANTECH_100922B				09/22/10 19:38
Alkalinity, Total as CaCO3		1680	mg/L	5.0	106	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100923_1_SLDS-TDS-W	
Sample ID: MBLK1_100923		Method Blank				Run: BAL-1_100923A			09/23/10 10:48	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100923		Laboratory Control Sample				Run: BAL-1_100923A			09/23/10 10:48	
Solids, Total Dissolved TDS @ 180 C		995	mg/L	10	99	90	110			
Sample ID: C10090804-002AMS		Sample Matrix Spike				Run: BAL-1_100923A			09/23/10 10:51	
Solids, Total Dissolved TDS @ 180 C		4080	mg/L	10	103	90	110			
Sample ID: C10090804-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100923A			09/23/10 10:51	
Solids, Total Dissolved TDS @ 180 C		4030	mg/L	10	102	90	110	1.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27612
Sample ID: MB-27612		Method Blank				Run: CVAA-C202_100928D				09/28/10 14:57
Selenium		ND	mg/L	0.0003						
Sample ID: LCS-27612		Laboratory Control Sample				Run: CVAA-C202_100928D				09/28/10 14:59
Selenium		0.0547	mg/L	0.0010	109	90	110			
Sample ID: C10090864-001BMS		Sample Matrix Spike				Run: CVAA-C202_100928D				09/28/10 15:03
Selenium		0.0558	mg/L	0.0010	112	85	115			
Sample ID: C10090864-001BMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100928D				09/28/10 15:06
Selenium		0.0562	mg/L	0.0010	112	85	115	0.7	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100922B		
Sample ID: ICV1_100922_2		Initial Calibration Verification Standard							09/22/10 14:22	
pH		6.85	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100922_2_PH-W_555A-2		
Sample ID: C10090851-005ADUP		Sample Duplicate				Run: ORION555A-2_100922B			09/22/10 14:57	
pH		7.64	s.u.	0.010				0.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R137582
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100922B				09/22/10 21:03
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100922B				09/22/10 21:05
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10090831-002EMS		Sample Matrix Spike				Run: TECHNICON_100922B				09/22/10 21:17
Nitrogen, Ammonia as N		2.22	mg/L	0.050	105	80	120			
Sample ID: C10090831-002EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100922B				09/22/10 21:19
Nitrogen, Ammonia as N		2.18	mg/L	0.050	103	80	120	1.8	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R65633
Sample ID: AS100924-LFB	Laboratory Control Sample					Run: SUB-H65633				09/24/10 15:29
Arsenic-III		45.4	ug/L	5.0	91	90	110			
Sample ID: C10090864-001E	Sample Matrix Spike					Run: SUB-H65633				09/24/10 15:42
Arsenic-III		52.0	ug/L	5.0	104	55	146			
Sample ID: C10090864-001E	Sample Matrix Spike Duplicate					Run: SUB-H65633				09/24/10 15:48
Arsenic-III		45.5	ug/L	5.0	91	55	146	13	20	
Sample ID: ICB_13r	Method Blank					Run: SUB-H65633				09/24/10 14:55
Arsenic-III		ND	ug/L	0.3						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R137628
Sample ID: MB-100923A	4	Method Blank				Run: ICP2-C_100923A				09/23/10 11:00
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100923A	4	Laboratory Fortified Blank				Run: ICP2-C_100923A				09/23/10 11:04
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		49.5	mg/L	0.50	99	85	115			
Potassium		44.3	mg/L	0.50	89	85	115			
Sodium		49.0	mg/L	0.50	98	85	115			
Sample ID: C10090529-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100923A				09/23/10 15:50
Calcium		131	mg/L	1.0	96	70	130			
Magnesium		104	mg/L	1.0	94	70	130			
Potassium		97.9	mg/L	1.0	92	70	130			
Sodium		311	mg/L	1.0	98	70	130			
Sample ID: C10090529-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100923A				09/23/10 15:54
Calcium		130	mg/L	1.0	95	70	130	1.1	20	
Magnesium		106	mg/L	1.0	96	70	130	1.9	20	
Potassium		97.1	mg/L	1.0	91	70	130	0.8	20	
Sodium		315	mg/L	1.0	101	70	130	1.2	20	
Method: E200.7										Batch: 27551
Sample ID: MB-27551		Method Blank				Run: ICP2-C_100928A				09/28/10 22:51
Aluminum		ND	mg/L	0.01						
Sample ID: LCS3-27551		Laboratory Control Sample				Run: ICP2-C_100928A				09/28/10 22:55
Aluminum		2.60	mg/L	0.10	104	85	115			
Sample ID: C10090864-001CMS3		Sample Matrix Spike				Run: ICP2-C_100928A				09/28/10 23:11
Aluminum		2.78	mg/L	0.10	107	70	130			
Sample ID: C10090864-001CMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_100928A				09/28/10 23:16
Aluminum		2.60	mg/L	0.10	100	70	130	6.9	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27551
Sample ID: MB-27551	7	Method Blank				Run: ICPMS4-C_100924A				09/24/10 17:33
Cadmium		4E-05	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		5E-05	mg/L	5E-05						
Manganese		0.0001	mg/L	2E-05						
Molybdenum		0.0010	mg/L	0.00010						
Uranium		ND	mg/L	4E-05						
Vanadium		0.004	mg/L	4E-05						
Sample ID: LCS3-27551	7	Laboratory Control Sample				Run: ICPMS4-C_100924A				09/24/10 18:07
Cadmium		0.268	mg/L	0.010	107	85	115			
Cobalt		0.499	mg/L	0.010	100	85	115			
Lead		0.521	mg/L	0.050	104	85	115			
Manganese		2.39	mg/L	0.010	96	85	115			
Molybdenum		0.519	mg/L	0.10	104	85	115			
Uranium		0.557	mg/L	0.00030	111	85	115			
Vanadium		0.477	mg/L	0.10	95	85	115			
Sample ID: C10090864-001CMS3	7	Sample Matrix Spike				Run: ICPMS4-C_100924A				09/24/10 18:46
Cadmium		0.242	mg/L	0.010	97	70	130			
Cobalt		0.514	mg/L	0.010	103	70	130			
Lead		0.542	mg/L	0.050	108	70	130			
Manganese		2.56	mg/L	0.010	100	70	130			
Molybdenum		0.549	mg/L	0.10	109	70	130			
Uranium		0.609	mg/L	0.00030	121	70	130			
Vanadium		0.527	mg/L	0.10	102	70	130			
Sample ID: C10090864-001CMSD	7	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100924A				09/24/10 18:53
Cadmium		0.240	mg/L	0.010	96	70	130	0.8	20	
Cobalt		0.518	mg/L	0.010	104	70	130	0.9	20	
Lead		0.545	mg/L	0.050	109	70	130	0.4	20	
Manganese		2.59	mg/L	0.010	101	70	130	1.1	20	
Molybdenum		0.546	mg/L	0.10	109	70	130	0.4	20	
Uranium		0.612	mg/L	0.00030	122	70	130	0.4	20	
Vanadium		0.523	mg/L	0.10	101	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27551
Sample ID: MB-27551	2	Method Blank				Run: ICPMS4-C_100927A				09/28/10 02:18
Beryllium		ND	mg/L	3E-05						
Nickel		9E-05	mg/L	4E-05						
Sample ID: LCS3-27551	2	Laboratory Control Sample				Run: ICPMS4-C_100927A				09/28/10 02:24
Beryllium		0.263	mg/L	0.010	105	85	115			
Nickel		0.554	mg/L	0.050	111	85	115			
Sample ID: C10090864-001CMS3	2	Sample Matrix Spike				Run: ICPMS4-C_100927A				09/28/10 02:52
Beryllium		0.227	mg/L	0.010	91	70	130			
Nickel		0.528	mg/L	0.050	105	70	130			
Sample ID: C10090864-001CMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100927A				09/28/10 03:26
Beryllium		0.233	mg/L	0.010	93	70	130	2.8	20	
Nickel		0.528	mg/L	0.050	105	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R137577
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_100922A			09/22/10 11:53	
Chloride		9.40	mg/L	1.0	94	90	110			
Sulfate		37.4	mg/L	1.0	93	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_100922A			09/22/10 12:07	
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10090812-001AMS	2	Sample Matrix Spike				Run: IC2-C_100922A			09/22/10 12:51	
Chloride		989	mg/L	2.0		80	120			A
Sulfate		445	mg/L	8.0	97	80	120			
Sample ID: C10090812-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_100922A			09/22/10 13:05	
Chloride		986	mg/L	2.0		80	120	0.3	20	A
Sulfate		445	mg/L	8.0	97	80	120	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R137559
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100922A				09/22/10 12:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100922A				09/22/10 12:22
Nitrogen, Nitrate+Nitrite as N		2.43	mg/L	0.10	97	90	110			
Sample ID: C10090689-007DMS		Sample Matrix Spike				Run: TECHNICON_100922A				09/22/10 12:37
Nitrogen, Nitrate+Nitrite as N		2.66	mg/L	0.10	99	90	110			
Sample ID: C10090689-007DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100922A				09/22/10 12:39
Nitrogen, Nitrate+Nitrite as N		2.68	mg/L	0.10	101	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R137927
Sample ID: 092810_LCS_4	9	Laboratory Control Sample				Run: SATURNCA_100928C				09/28/10 13:43
Bromodichloromethane		9.20	ug/L	1.0	92	70	130			
Bromoform		10.3	ug/L	1.0	103	70	130			
Chlorodibromomethane		10.6	ug/L	1.0	106	70	130			
Chloroform		9.44	ug/L	1.0	94	70	130			
Trihalomethanes, Total		39.6	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120			
Surr: Dibromofluoromethane				1.0	100	80	120			
Surr: p-Bromofluorobenzene				1.0	98	80	120			
Surr: Toluene-d8				1.0	93	80	120			
Sample ID: 092810_MBLK_6	9	Method Blank				Run: SATURNCA_100928C				09/28/10 14:56
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120			
Surr: Dibromofluoromethane				1.0	97	80	120			
Surr: p-Bromofluorobenzene				1.0	92	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C10090864-001HMS	9	Sample Matrix Spike				Run: SATURNCA_100928C				09/29/10 08:04
Bromodichloromethane		106	ug/L	10	106	70	130			
Bromoform		86.8	ug/L	10	87	70	130			
Chlorodibromomethane		114	ug/L	10	114	70	130			
Chloroform		103	ug/L	10	103	70	130			
Trihalomethanes, Total		410	ug/L	10	102	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: C10090864-001HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_100928C				09/29/10 08:40
Bromodichloromethane		103	ug/L	10	103	70	130	3.1	20	
Bromoform		104	ug/L	10	104	70	130	18	20	
Chlorodibromomethane		109	ug/L	10	109	70	130	4.3	20	
Chloroform		102	ug/L	10	102	70	130	1.2	20	
Trihalomethanes, Total		418	ug/L	10	104	70	130	1.9	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	97	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	98	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0360
Sample ID: MB-GA-0360	3	Method Blank				Run: G5000W_100924A				09/27/10 14:12
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0360		Laboratory Control Sample				Run: G5000W_100924A				09/27/10 14:12
Gross Alpha minus Rn & U		8.43pCi/L			32	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.										
Sample ID: C10090851-007FMS		Sample Matrix Spike				Run: G5000W_100924A				09/27/10 15:46
Gross Alpha minus Rn & U		28.4pCi/L			103	70	130			
Sample ID: C10090851-007FMSD		Sample Matrix Spike Duplicate				Run: G5000W_100924A				09/27/10 15:46
Gross Alpha minus Rn & U		28.2pCi/L			103	70	130	0.7	23.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4829
Sample ID: C10090619-011DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100924A			10/04/10 12:38	
Radium 226		21	pCi/L		124	70	130			
Sample ID: C10090619-011DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100924A			10/04/10 12:38	
Radium 226		20	pCi/L		118	70	130	3.8	24.5	
Sample ID: MB-RA226-4829	3	Method Blank				Run: BERTHOLD 770-2_100924A			10/04/10 14:10	
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4829		Laboratory Control Sample				Run: BERTHOLD 770-2_100924A			10/04/10 14:10	
Radium 226		11	pCi/L		141	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1250	
Sample ID: LCS-RA-TH-ISO-1250		Laboratory Control Sample				Run: EGG-ORTEC_100923A			09/27/10 13:31	
Thorium 230		5.8	pCi/L		110	70	130			
Sample ID: C10090852-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100923A			09/27/10 13:31	
Thorium 230		13	pCi/L		104	70	130			
Sample ID: C10090852-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100923A			09/27/10 13:31	
Thorium 230		12	pCi/L		91	70	130	13	40.6	
Sample ID: MB-RA-TH-ISO-1250	3	Method Blank				Run: EGG-ORTEC_100923A			09/27/10 13:31	
Thorium 230		0.008	pCi/L							U
Thorium 230 precision (±)		0.06pCi/L								
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: T_PB-210-0019
Sample ID: MB-PB-210-0019	3	Method Blank				Run: SUB-T37150				10/04/10 23:05
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0019		Laboratory Control Sample				Run: SUB-T37150				10/05/10 03:28
Lead 210		59	pCi/L		107	70	130			
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: SUB-T37150				10/05/10 07:51
Lead 210		130	pCi/L		119	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: SUB-T37150				10/05/10 10:02
Lead 210		140	pCi/L		124	70	130	4.1	15.7	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Not Indicated

Report Date: 10/11/10
Work Order: C10090864

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3398
Sample ID: LCS-228-RA226-4829		Laboratory Control Sample				Run: TENNELEC-3_100924A				09/28/10 09:18
Radium 228		7.43	pCi/L		94	70	130			
Sample ID: MB-RA226-4829	3	Method Blank				Run: TENNELEC-3_100924A				09/28/10 09:18
Radium 228		0.5	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		0.9	pCi/L							
Sample ID: C10090793-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100924A				09/28/10 09:18
Radium 228		14.7	pCi/L		95	70	130			
Sample ID: C10090793-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100924A				09/28/10 09:18
Radium 228		13.6	pCi/L		88	70	130	7.8	30.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

APPENDIX - D (2 OF 2)

FOURTH QUARTER

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

ANALYTICAL SUMMARY REPORT

November 19, 2010

United Nuclear Corporation
21 Miles NE of Gallup
Gallup, NM 87305

Workorder No.: C10100364 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corporation on 10/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100364-001	509-D	10/04/10 09:22	10/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10100364-002	EPA-23	10/04/10 10:02	10/08/10	Aqueous	Same As Above
C10100364-003	803	10/04/10 10:36	10/08/10	Aqueous	Same As Above
C10100364-004	808	10/04/10 11:12	10/08/10	Aqueous	Same As Above
C10100364-005	802	10/04/10 11:50	10/08/10	Aqueous	Same As Above
C10100364-006	801	10/04/10 12:40	10/08/10	Aqueous	Same As Above
C10100364-007	GW-2	10/04/10 13:25	10/08/10	Aqueous	Same As Above
C10100364-008	GW-1	10/04/10 14:12	10/08/10	Aqueous	Same As Above
C10100364-009	632	10/04/10 15:00	10/08/10	Aqueous	Same As Above
C10100364-010	624	10/05/10 08:55	10/08/10	Aqueous	Same As Above
C10100364-011	SBL-1	10/05/10 09:38	10/08/10	Aqueous	Same As Above
C10100364-012	EPA-28	10/05/10 10:22	10/08/10	Aqueous	Same As Above
C10100364-013	EPA-28 Duplicate	10/05/10 10:50	10/08/10	Aqueous	Same As Above
C10100364-014	GW-3	10/05/10 13:00	10/08/10	Aqueous	Same As Above
C10100364-015	EPA-25	10/05/10 13:55	10/08/10	Aqueous	Same As Above
C10100364-016	627	10/05/10 14:50	10/08/10	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.19 17:24:46 -07:00

CLIENT: United Nuclear Corporation
Project: Alluvium
Sample Delivery Group: C10100364

Report Date: 11/19/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138344
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101008B				10/08/10 15:55
Alkalinity, Total as CaCO3		1.16	mg/L	5.0						
Bicarbonate as HCO3		1.42	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101008B				10/08/10 16:11
Alkalinity, Total as CaCO3		214	mg/L	5.0	106	90	110			
Sample ID: C10100364-011ADUP	2	Sample Duplicate				Run: MANTECH_101008B				10/08/10 23:31
Alkalinity, Total as CaCO3		384	mg/L	5.0				0.3	10	
Bicarbonate as HCO3		468	mg/L	5.0				0.2	10	
Sample ID: C10100364-011AMS		Sample Matrix Spike				Run: MANTECH_101008B				10/08/10 23:39
Alkalinity, Total as CaCO3		513	mg/L	5.0	104	80	120			

Qualifiers:

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ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101008_1_SLDS-TDS-W	
Sample ID: MBLK1_101008		Method Blank				Run: BAL-1_101008B			10/11/10 10:47	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101008		Laboratory Control Sample				Run: BAL-1_101008B			10/11/10 10:47	
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C10100364-008AMS		Sample Matrix Spike				Run: BAL-1_101008B			10/11/10 10:55	
Solids, Total Dissolved TDS @ 180 C		11300	mg/L	20	101	90	110			
Sample ID: C10100364-008AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101008B			10/11/10 10:55	
Solids, Total Dissolved TDS @ 180 C		11200	mg/L	20	101	90	110	0.3	10	

Qualifiers:
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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27769
Sample ID: MB-27769		Method Blank				Run: CVAA-C202_101009A			10/09/10 12:30	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-27769		Laboratory Control Sample				Run: CVAA-C202_101009A			10/09/10 12:32	
Selenium-IV		0.0494	mg/L	0.0010	99	90	110			
Sample ID: C10100037-001EMS		Sample Matrix Spike				Run: CVAA-C202_101009A			10/09/10 12:36	
Selenium-IV		0.0494	mg/L	0.0010	99	85	115			
Sample ID: C10100037-001EMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101009A			10/09/10 12:39	
Selenium-IV		0.0488	mg/L	0.0010	98	85	115	1.1	10	
Sample ID: C10100364-009CMS		Sample Matrix Spike				Run: CVAA-C202_101009A			10/09/10 13:08	
Selenium-IV		0.0459	mg/L	0.0010	89	85	115			
Sample ID: C10100364-009CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101009A			10/09/10 13:11	
Selenium-IV		0.0460	mg/L	0.0010	89	85	115	0.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_101008C	
Sample ID: ICV1_101008_3		Initial Calibration Verification Standard							10/08/10 15:48	
pH		6.85	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 101008_3_PH-W_555A-2	
Sample ID: C10100364-010ADUP		Sample Duplicate				Run: ORION555A-2_101008C			10/08/10 17:22	
pH		7.59	s.u.	0.010				0.1	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R138802
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101020B				10/20/10 21:44
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101020B				10/20/10 21:48
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10100364-009DMS		Sample Matrix Spike				Run: TECHNICON_101020B				10/20/10 22:30
Nitrogen, Ammonia as N		2.76	mg/L	0.050	106	80	120			
Sample ID: C10100364-009DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101020B				10/20/10 22:32
Nitrogen, Ammonia as N		2.84	mg/L	0.050	110	80	120	2.9	20	
Sample ID: C10100364-016DMS		Sample Matrix Spike				Run: TECHNICON_101020B				10/20/10 23:02
Nitrogen, Ammonia as N		2.11	mg/L	0.050	102	80	120			
Sample ID: C10100364-016DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101020B				10/20/10 23:04
Nitrogen, Ammonia as N		2.12	mg/L	0.050	103	80	120	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Analytical Run: SUB-H67258	
Sample ID: AS101116-ICV		Initial Calibration Verification Standard							11/16/10 13:15	
Arsenic-III		2.08	ug/L	5.0	104	87.6	114			
Method: E1632AM									Batch: H_R67258	
Sample ID: ICB_13r		Method Blank				Run: SUB-H67258			11/16/10 13:09	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101116-LFB		Laboratory Control Sample				Run: SUB-H67258			11/16/10 13:21	
Arsenic-III		5.02	ug/L	5.0	100	85	115			
Sample ID: H10100218-001EMS		Sample Matrix Spike				Run: SUB-H67258			11/16/10 15:03	
Arsenic-III		7.48	ug/L	2.0	143	55	146			
Sample ID: H10100218-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-H67258			11/16/10 15:10	
Arsenic-III		8.26	ug/L	2.0	159	55	146	9.9	20	S
Method: E1632AM									Analytical Run: SUB-H67315	
Sample ID: AS101117-ICV		Initial Calibration Verification Standard							11/17/10 10:46	
Arsenic-III		2.06	ug/L	1.0	103	87.6	114			
Sample ID: AS101117-5		Continuing Calibration Verification Standard							11/17/10 10:09	
Arsenic-III		5.07	ug/L	1.0	101	85	115			
Method: E1632AM									Batch: H_R67315	
Sample ID: ICB_13r		Method Blank				Run: SUB-H67315			11/17/10 10:15	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101117-LFB		Laboratory Control Sample				Run: SUB-H67315			11/17/10 10:28	
Arsenic-III		5.22	ug/L	1.0	104	85	115			
Sample ID: C10100364-005E		Sample Matrix Spike				Run: SUB-H67315			11/17/10 11:10	
Arsenic-III		7.52	ug/L	2.0	150	55	146			S
Sample ID: C10100364-005E		Sample Matrix Spike Duplicate				Run: SUB-H67315			11/17/10 11:17	
Arsenic-III		7.62	ug/L	2.0	152	55	146	1.3	20	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Analytical Run: SUB-H67318	
Sample ID: AS101117-5		Continuing Calibration Verification Standard							11/17/10 14:34	
Arsenic-III		4.51	ug/L	1.0	90	85	115			
Method: E1632AM									Batch: H_R67318	
Sample ID: ICB_13r		Method Blank				Run: SUB-H67318			11/17/10 16:03	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101117-LFB		Laboratory Fortified Blank				Run: SUB-H67318			11/17/10 14:40	
Arsenic-III		4.76	ug/L	1.0	95	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike				Run: SUB-H67318			11/17/10 16:28	
Arsenic-III		7.36	ug/L	2.0	87	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike Duplicate				Run: SUB-H67318			11/17/10 16:35	
Arsenic-III		7.32	ug/L	2.0	86	55	146	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R138918
Sample ID: MB-101022A	4	Method Blank				Run: ICP2-C_101022A				10/22/10 12:22
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101022A	4	Laboratory Fortified Blank				Run: ICP2-C_101022A				10/22/10 12:26
Calcium		48.1	mg/L	0.50	96	85	115			
Magnesium		47.7	mg/L	0.50	95	85	115			
Potassium		44.5	mg/L	0.50	89	85	115			
Sodium		49.4	mg/L	0.50	99	85	115			
Sample ID: C10100364-009BMS2	4	Sample Matrix Spike				Run: ICP2-C_101022A				10/22/10 14:30
Calcium		1080	mg/L	2.3	92	70	130			
Magnesium		1280	mg/L	1.0	93	70	130			
Potassium		475	mg/L	1.0	91	70	130			
Sodium		912	mg/L	2.9	98	70	130			
Sample ID: C10100364-009BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101022A				10/22/10 14:34
Calcium		1090	mg/L	2.3	93	70	130	0.5	20	
Magnesium		1300	mg/L	1.0	98	70	130	1.7	20	
Potassium		471	mg/L	1.0	90	70	130	0.9	20	
Sodium		914	mg/L	2.9	98	70	130	0.2	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R138831A
Sample ID: C10100798-001BMS4	10	Sample Matrix Spike				Run: ICPMS4-C_101020A			10/21/10 07:34	
Aluminum		0.0588	mg/L	0.10	105	70	130			
Beryllium		0.0513	mg/L	0.010	103	70	130			
Cadmium		0.0514	mg/L	0.010	103	70	130			
Cobalt		0.0546	mg/L	0.010	107	70	130			
Lead		0.0540	mg/L	0.050	108	70	130			
Manganese		0.148	mg/L	0.010	105	70	130			
Molybdenum		0.0549	mg/L	0.10	106	70	130			
Nickel		0.0574	mg/L	0.050	106	70	130			
Uranium		0.0562	mg/L	0.00030	108	70	130			
Vanadium		0.0530	mg/L	0.10	105	70	130			
Sample ID: C10100798-001BMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101020A			10/21/10 07:41	
Aluminum		0.0586	mg/L	0.0010	105	70	130	0.4	20	
Beryllium		0.0521	mg/L	0.010	104	70	130	1.5	20	
Cadmium		0.0521	mg/L	0.010	104	70	130	1.3	20	
Cobalt		0.0542	mg/L	0.010	107	70	130	0.7	20	
Lead		0.0546	mg/L	0.050	109	70	130	1.2	20	
Manganese		0.148	mg/L	0.010	105	70	130	0.1	20	
Molybdenum		0.0560	mg/L	0.0010	108	70	130	2.0	20	
Nickel		0.0573	mg/L	0.050	105	70	130	0.3	20	
Uranium		0.0570	mg/L	0.00030	109	70	130	1.3	20	
Vanadium		0.0534	mg/L	0.0010	106	70	130	0.8	20	
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_101020A			10/20/10 18:07	
Aluminum		ND	mg/L	8E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Molybdenum		0.0002	mg/L	8E-05						
Nickel		0.0003	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_101020A			10/21/10 10:46	
Aluminum		0.0506	mg/L	0.0010	101	85	115			
Beryllium		0.0495	mg/L	0.0010	99	85	115			
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Cobalt		0.0524	mg/L	0.0010	105	85	115			
Lead		0.0525	mg/L	0.0010	105	85	115			
Manganese		0.0518	mg/L	0.0010	104	85	115			
Molybdenum		0.0514	mg/L	0.0010	102	85	115			
Nickel		0.0520	mg/L	0.0010	103	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0513	mg/L	0.0010	103	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27897
Sample ID: MB-27897	10	Method Blank				Run: ICPMS4-C_101025A				10/25/10 15:03
Aluminum		0.002	mg/L	0.0008						
Beryllium		ND	mg/L	3E-05						
Cadmium		0.0002	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		0.0003	mg/L	5E-05						
Manganese		0.0007	mg/L	2E-05						
Molybdenum		0.002	mg/L	0.00010						
Nickel		0.0002	mg/L	4E-05						
Uranium		6E-05	mg/L	4E-05						
Vanadium		0.01	mg/L	4E-05						
Sample ID: LCS3-27897	10	Laboratory Control Sample				Run: ICPMS4-C_101025A				10/25/10 15:12
Aluminum		2.36	mg/L	0.10	94	85	115			
Beryllium		0.243	mg/L	0.010	97	85	115			
Cadmium		0.274	mg/L	0.010	109	85	115			
Cobalt		0.516	mg/L	0.010	103	85	115			
Lead		0.546	mg/L	0.050	109	85	115			
Manganese		2.49	mg/L	0.010	99	85	115			
Molybdenum		0.575	mg/L	0.10	115	85	115			
Nickel		0.531	mg/L	0.050	106	85	115			
Uranium		0.552	mg/L	0.00030	110	85	115			
Vanadium		0.530	mg/L	0.10	103	85	115			
Sample ID: C10100375-004CMS3	10	Sample Matrix Spike				Run: ICPMS4-C_101025A				10/25/10 18:31
Aluminum		2.25	mg/L	0.10	90	70	130			
Beryllium		0.232	mg/L	0.010	93	70	130			
Cadmium		0.282	mg/L	0.010	113	70	130			
Cobalt		0.498	mg/L	0.010	100	70	130			
Lead		0.565	mg/L	0.050	113	70	130			
Manganese		2.43	mg/L	0.010	97	70	130			
Molybdenum		0.583	mg/L	0.10	117	70	130			
Nickel		0.524	mg/L	0.050	105	70	130			
Uranium		0.567	mg/L	0.00030	113	70	130			
Vanadium		0.510	mg/L	0.10	100	70	130			
Sample ID: C10100375-004CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101025A				10/25/10 18:37
Aluminum		2.12	mg/L	0.10	85	70	130	5.9	20	
Beryllium		0.220	mg/L	0.010	88	70	130	5.1	20	
Cadmium		0.266	mg/L	0.010	107	70	130	5.5	20	
Cobalt		0.465	mg/L	0.010	93	70	130	6.9	20	
Lead		0.530	mg/L	0.050	106	70	130	6.4	20	
Manganese		2.27	mg/L	0.010	91	70	130	6.8	20	
Molybdenum		0.553	mg/L	0.10	111	70	130	5.3	20	
Nickel		0.499	mg/L	0.050	100	70	130	5.0	20	
Uranium		0.533	mg/L	0.00030	107	70	130	6.1	20	
Vanadium		0.489	mg/L	0.10	95	70	130	4.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R138719
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_101018A				10/18/10 20:58
Chloride		9.19	mg/L	1.0	92	90	110			
Sulfate		37.5	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_101018A				10/18/10 21:15
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10100364-003AMS	2	Sample Matrix Spike				Run: IC2-C_101018A				10/19/10 15:02
Chloride		368	mg/L	4.0	104	80	120			
Sulfate		4100	mg/L	16		80	120			A
Sample ID: C10100364-003AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_101018A				10/19/10 15:19
Chloride		368	mg/L	4.0	105	80	120	0.1	20	
Sulfate		4080	mg/L	16		80	120	0.5	20	A
Method: E300.0										Batch: R138885
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_101019A				10/20/10 01:07
Chloride		9.58	mg/L	1.0	96	90	110			
Sulfate		37.6	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_101019A				10/20/10 01:23
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10100364-012AMS	2	Sample Matrix Spike				Run: IC2-C_101019A				10/20/10 03:18
Chloride		318	mg/L	4.0	99	80	120			
Sulfate		3580	mg/L	16	79	80	120			S
Sample ID: C10100364-012AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_101019A				10/20/10 03:34
Chloride		311	mg/L	4.0	95	80	120	2.3	20	
Sulfate		3490	mg/L	16	68	80	120	2.4	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R138907
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101022B				10/22/10 11:56
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101022B				10/22/10 11:59
Nitrogen, Nitrate+Nitrite as N		2.48	mg/L	0.10	99	90	110			
Sample ID: C10100351-013EMS		Sample Matrix Spike				Run: TECHNICON_101022B				10/22/10 13:34
Nitrogen, Nitrate+Nitrite as N		1.92	mg/L	0.10	96	90	110			
Sample ID: C10100351-013EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101022B				10/22/10 13:36
Nitrogen, Nitrate+Nitrite as N		1.99	mg/L	0.10	100	90	110	3.6	10	
Method: E353.2										Batch: R138975
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101025A				10/25/10 12:27
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101025A				10/25/10 12:29
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Sample ID: C10100594-007DMS		Sample Matrix Spike				Run: TECHNICON_101025A				10/25/10 15:24
Nitrogen, Nitrate+Nitrite as N		2.08	mg/L	0.10	104	90	110			
Sample ID: C10100594-007DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101025A				10/25/10 15:27
Nitrogen, Nitrate+Nitrite as N		2.13	mg/L	0.10	106	90	110	2.4	10	
Sample ID: C10100375-004DMS		Sample Matrix Spike				Run: TECHNICON_101025A				10/25/10 16:02
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	100	90	110			
Sample ID: C10100375-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101025A				10/25/10 16:04
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	2.0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138418
Sample ID: 11-Oct-10_LCS_5	9	Laboratory Control Sample				Run: 5975VOC1_101011A			10/11/10 14:01	
Bromodichloromethane		10.2	ug/L	1.0	102	70	130			
Bromoform		10.8	ug/L	1.0	108	70	130			
Chlorodibromomethane		10.1	ug/L	1.0	101	70	130			
Chloroform		8.92	ug/L	1.0	89	70	130			
Trihalomethanes, Total		40.0	ug/L	1.0	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	84	80	120			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: 11-Oct-10_MBLK_7	9	Method Blank				Run: 5975VOC1_101011A			10/11/10 15:12	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	122	80	120			S
Surr: Dibromofluoromethane				1.0	86	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	97	80	120			
Sample ID: C10100364-016HMS	9	Sample Matrix Spike				Run: 5975VOC1_101011A			10/11/10 22:21	
Bromodichloromethane		109	ug/L	10	109	70	130			
Bromoform		110	ug/L	10	110	70	130			
Chlorodibromomethane		106	ug/L	10	106	70	130			
Chloroform		114	ug/L	10	114	70	130			
Trihalomethanes, Total		439	ug/L	10	110	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	118	80	120			
Surr: Dibromofluoromethane				1.0	104	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10100364-016HMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_101011A			10/11/10 22:58	
Bromodichloromethane		108	ug/L	10	108	70	130	1.1	20	
Bromoform		111	ug/L	10	111	70	130	1.1	20	
Chlorodibromomethane		108	ug/L	10	108	70	130	1.9	20	
Chloroform		109	ug/L	10	109	70	130	4.7	20	
Trihalomethanes, Total		436	ug/L	10	109	70	130	0.7	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	116	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	103	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0364
Sample ID: MB-GA-0364	3	Method Blank				Run: G542M_101013C				10/18/10 23:18
Gross Alpha minus Rn & U		-0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0364		Laboratory Control Sample				Run: G542M_101013C				10/18/10 23:18
Gross Alpha minus Rn & U		26.3	pCi/L		101	70	130			
Sample ID: C10100364-016GMS		Sample Matrix Spike				Run: G542M_101013C				10/19/10 00:55
Gross Alpha minus Rn & U		51.3	pCi/L		97	70	130			
Sample ID: C10100364-016GMSD		Sample Matrix Spike Duplicate				Run: G542M_101013C				10/19/10 02:38
Gross Alpha minus Rn & U		48.6	pCi/L		92	70	130	5.3	22.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4918
Sample ID: C10100364-008GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_101019A				11/02/10 17:44
Radium 226		-0.092	pCi/L			70	130			US
- Spike response is outside of the acceptance range for this analysis due to the analyst apparently forgetting to spike the MS and MSD. Since the LCS and the RPD for the MS MSD pair are acceptable the batch is approved.										
Sample ID: C10100364-008GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_101019A				11/02/10 17:44
Radium 226		-0.18	pCi/L		-1	70	130	65	227.1	US
Sample ID: MB-RA226-4918	3	Method Blank				Run: BERTHOLD 770-2_101019A				11/02/10 21:54
Radium 226		-0.09	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4918		Laboratory Control Sample				Run: BERTHOLD 770-2_101019A				11/02/10 21:54
Radium 226		8.2	pCi/L		105	70	130			
Method: E903.0										Batch: RA226-4917
Sample ID: C10100364-001GMS		Sample Matrix Spike				Run: G5000W_101019A				11/01/10 17:14
Radium 226		13	pCi/L		79	70	130			
Sample ID: C10100364-001GMSD		Sample Matrix Spike Duplicate				Run: G5000W_101019A				11/01/10 17:14
Radium 226		12	pCi/L		77	70	130	2.6	24.6	
Sample ID: MB-RA226-4917	3	Method Blank				Run: G5000W_101019A				11/01/10 17:15
Radium 226		-0.06	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4917		Laboratory Control Sample				Run: G5000W_101019A				11/01/10 17:15
Radium 226		8.4	pCi/L		107	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1270	
Sample ID: LCS-RA-TH-ISO-1270		Laboratory Control Sample				Run: EGG-ORTEC_101018A			10/19/10 17:20	
Thorium 230		4.97	pCi/L		92	70	130			
Sample ID: C10100364-011GMS		Sample Matrix Spike				Run: EGG-ORTEC_101018A			10/20/10 08:50	
Thorium 230		12.4	pCi/L		89	70	130			
Sample ID: C10100364-011GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_101018A			10/20/10 08:50	
Thorium 230		12.1	pCi/L		95	70	130	2.6	40	
Sample ID: MB-RA-TH-ISO-1270	3	Method Blank				Run: EGG-ORTEC_101018A			10/20/10 11:00	
Thorium 230		0.04	pCi/L							U
Thorium 230 precision (±)		0.08	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: T_PB-210-0032
Sample ID: MB-PB-210-0032	3	Method Blank				Run: SUB-T37502				10/29/10 09:34
Lead 210		0.02	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0032		Laboratory Control Sample				Run: SUB-T37502				10/29/10 13:57
Lead 210		42	pCi/L		76	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37502				10/29/10 18:20
Lead 210		56	pCi/L		103	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37502				10/29/10 20:32
Lead 210		58	pCi/L		106	70	130	0.0	15.7	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 11/19/10
Work Order: C10100364

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3448
Sample ID: LCS-228-RA226-4917		Laboratory Control Sample				Run: TENNELEC-3_101019A			10/26/10 17:33	
Radium 228		5.8	pCi/L		83	70	130			
Sample ID: MB-RA226-4917	3	Method Blank				Run: TENNELEC-3_101019A			10/26/10 17:33	
Radium 228		-0.2	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10100364-007GMS		Sample Matrix Spike				Run: TENNELEC-3_101019A			10/26/10 17:33	
Radium 228		15	pCi/L		93	70	130			
Sample ID: C10100364-007GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101019A			10/26/10 17:33	
Radium 228		14	pCi/L		86	70	130	6.3	37.3	
Method: RA-05										Batch: RA228-3449
Sample ID: LCS-228-RA226-4918		Laboratory Control Sample				Run: TENNELEC-3_101019B			10/27/10 09:29	
Radium 228		8.6	pCi/L		110	70	130			
Sample ID: MB-RA226-4918	3	Method Blank				Run: TENNELEC-3_101019B			10/27/10 09:29	
Radium 228		0.6	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10100364-014GMS		Sample Matrix Spike				Run: TENNELEC-3_101019B			10/27/10 09:29	
Radium 228		17	pCi/L		105	70	130			
Sample ID: C10100364-014GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101019B			10/27/10 09:29	
Radium 228		16	pCi/L		94	70	130	9.0	31.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

November 22, 2010

United Nuclear Corporation
21 Miles NE of Gallup
Gallup, NM 87305

Workorder No.: C10100375 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corporation on 10/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100375-001	614	10/06/10 09:00	10/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10100375-002	515-A	10/06/10 09:40	10/08/10	Aqueous	Same As Above
C10100375-003	604	10/06/10 10:30	10/08/10	Aqueous	Same As Above
C10100375-004	Field Blank	10/06/10 11:50	10/08/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.22 10:57:29 -07:00

CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10100375

Report Date: 11/22/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138399
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101011B				10/11/10 15:58
Alkalinity, Total as CaCO3		3.56	mg/L	5.0						
Bicarbonate as HCO3		4.34	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101011B				10/11/10 16:12
Alkalinity, Total as CaCO3		212	mg/L	5.0	104	90	110			
Sample ID: C10100382-001ADUP	2	Sample Duplicate				Run: MANTECH_101011B				10/11/10 18:45
Alkalinity, Total as CaCO3		250	mg/L	5.0				1.0	10	
Bicarbonate as HCO3		305	mg/L	5.0				1.0	10	
Sample ID: C10100382-001AMS		Sample Matrix Spike				Run: MANTECH_101011B				10/11/10 18:53
Alkalinity, Total as CaCO3		384	mg/L	5.0	109	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101011_1_SLDS-TDS-W	
Sample ID: MBLK1_101011		Method Blank				Run: BAL-1_101011B			10/11/10 16:19	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101011		Laboratory Control Sample				Run: BAL-1_101011B			10/11/10 16:19	
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C10100359-001GMS		Sample Matrix Spike				Run: BAL-1_101011B			10/11/10 16:28	
Solids, Total Dissolved TDS @ 180 C		2890	mg/L	10	102	90	110			
Sample ID: C10100359-001GMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101011B			10/11/10 16:28	
Solids, Total Dissolved TDS @ 180 C		2880	mg/L	10	102	90	110	0.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27769
Sample ID: MB-27769		Method Blank				Run: CVAA-C202_101009A			10/09/10 12:30	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-27769		Laboratory Control Sample				Run: CVAA-C202_101009A			10/09/10 12:32	
Selenium-IV		0.0494	mg/L	0.0010	99	90	110			
Sample ID: C10100375-001CMS		Sample Matrix Spike				Run: CVAA-C202_101009A			10/09/10 13:41	
Selenium-IV		0.0407	mg/L	0.0010	80	85	115			S
Sample ID: C10100375-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101009A			10/09/10 13:43	
Selenium-IV		0.0420	mg/L	0.0010	83	85	115	3.2	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_101011A		
Sample ID: ICV1_101011_1		Initial Calibration Verification Standard								10/11/10 09:25
pH		6.89	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 101011_1_PH-W_555A-2		
Sample ID: C10100375-003ADUP		Sample Duplicate				Run: ORION555A-2_101011A				10/11/10 11:59
pH		5.51	s.u.	0.010				2.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R138802
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101020B				10/20/10 21:44
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101020B				10/20/10 21:48
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10100364-016DMS		Sample Matrix Spike				Run: TECHNICON_101020B				10/20/10 23:02
Nitrogen, Ammonia as N		2.11	mg/L	0.050	102	80	120			
Sample ID: C10100364-016DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101020B				10/20/10 23:04
Nitrogen, Ammonia as N		2.12	mg/L	0.050	103	80	120	0.5	20	
Method: A4500-NH3 G										Batch: R139098
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101027A				10/27/10 10:02
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101027A				10/27/10 10:17
Nitrogen, Ammonia as N		19.8	mg/L	0.50	99	80	120			
Sample ID: C10100634-001CMS		Sample Matrix Spike				Run: TECHNICON_101027A				10/27/10 10:59
Nitrogen, Ammonia as N		2.10	mg/L	0.050	105	80	120			
Sample ID: C10100634-001CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101027A				10/27/10 11:01
Nitrogen, Ammonia as N		2.14	mg/L	0.050	107	80	120	1.9	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R67258	
Sample ID: ICB_13r		Method Blank				Run: SUB-H67258			11/16/10 13:09	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101116-LFB		Laboratory Control Sample				Run: SUB-H67258			11/16/10 13:21	
Arsenic-III		5.02	ug/L	5.0	100	85	115			
Sample ID: H10100218-001EMS		Sample Matrix Spike				Run: SUB-H67258			11/16/10 15:03	
Arsenic-III		7.48	ug/L	2.0	143	55	146			
Sample ID: H10100218-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-H67258			11/16/10 15:10	
Arsenic-III		8.26	ug/L	2.0	159	55	146	9.9	20	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R138980
Sample ID: LFB-101025A	4	Laboratory Fortified Blank				Run: ICP2-C_101025A				10/25/10 10:29
Calcium		49.7	mg/L	0.50	99	85	115			
Magnesium		49.0	mg/L	0.50	98	85	115			
Potassium		45.8	mg/L	0.50	92	85	115			
Sodium		49.9	mg/L	0.50	100	85	115			
Sample ID: MB-101025A	4	Method Blank				Run: ICP2-C_101025A				10/25/10 10:39
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: C10100372-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_101025A				10/25/10 11:31
Calcium		888	mg/L	2.3	89	70	130			
Magnesium		1170	mg/L	1.0	92	70	130			
Potassium		447	mg/L	1.0	88	70	130			
Sodium		777	mg/L	2.9	100	70	130			
Sample ID: C10100372-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101025A				10/25/10 11:35
Calcium		914	mg/L	2.3	94	70	130	2.8	20	
Magnesium		1170	mg/L	1.0	91	70	130	0.4	20	
Potassium		457	mg/L	1.0	89	70	130	2.1	20	
Sodium		772	mg/L	2.9	99	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27897
Sample ID: MB-27897		Method Blank				Run: ICPMS2-C_101101A				11/01/10 21:47
Lead		0.00010	mg/L	5E-05						
Sample ID: LCS3-27897		Laboratory Control Sample				Run: ICPMS2-C_101101A				11/01/10 21:54
Lead		0.547	mg/L	0.050	109	85	115			
Sample ID: C10100375-004CMS3		Sample Matrix Spike				Run: ICPMS2-C_101101A				11/01/10 22:34
Lead		0.565	mg/L	0.050	113	70	130			
Sample ID: C10100375-004CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_101101A				11/01/10 22:41
Lead		0.525	mg/L	0.050	105	70	130	7.2	20	
Method: E200.8										Batch: 27897
Sample ID: MB-27897		Method Blank				Run: ICPMS2-C_101108A				11/08/10 15:05
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-27897		Laboratory Control Sample				Run: ICPMS2-C_101108A				11/08/10 15:10
Uranium		0.559	mg/L	0.00030	112	85	115			
Sample ID: C10100375-004CMS3		Sample Matrix Spike				Run: ICPMS2-C_101108A				11/08/10 15:51
Uranium		0.576	mg/L	0.00030	115	70	130			
Sample ID: C10100375-004CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_101108A				11/08/10 15:55
Uranium		0.536	mg/L	0.00030	107	70	130	7.1	20	

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R138831A
Sample ID: C10100375-001CMS4	10	Sample Matrix Spike				Run: ICPMS4-C_101020A				10/21/10 08:15
Aluminum		0.297	mg/L	0.10	110	70	130			
Beryllium		0.286	mg/L	0.010	115	70	130			
Cadmium		0.250	mg/L	0.010	100	70	130			
Cobalt		0.269	mg/L	0.010	105	70	130			
Lead		0.265	mg/L	0.050	105	70	130			
Manganese		1.01	mg/L	0.010	113	70	130			
Molybdenum		0.262	mg/L	0.10	105	70	130			
Nickel		0.256	mg/L	0.050	100	70	130			
Uranium		0.315	mg/L	0.00030	105	70	130			
Vanadium		0.260	mg/L	0.10	104	70	130			
Sample ID: C10100375-001CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101020A				10/21/10 08:22
Aluminum		0.312	mg/L	0.10	116	70	130	4.8	20	
Beryllium		0.290	mg/L	0.010	116	70	130	1.2	20	
Cadmium		0.255	mg/L	0.010	102	70	130	1.7	20	
Cobalt		0.276	mg/L	0.010	107	70	130	2.3	20	
Lead		0.274	mg/L	0.050	109	70	130	3.4	20	
Manganese		1.04	mg/L	0.010	125	70	130	3.0	20	
Molybdenum		0.267	mg/L	0.10	107	70	130	2.0	20	
Nickel		0.264	mg/L	0.050	103	70	130	3.0	20	
Uranium		0.324	mg/L	0.00030	109	70	130	2.8	20	
Vanadium		0.269	mg/L	0.10	107	70	130	3.3	20	
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_101020A				10/20/10 18:07
Aluminum		ND	mg/L	8E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Molybdenum		0.0002	mg/L	8E-05						
Nickel		0.0003	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_101020A				10/21/10 10:46
Aluminum		0.0506	mg/L	0.0010	101	85	115			
Beryllium		0.0495	mg/L	0.0010	99	85	115			
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Cobalt		0.0524	mg/L	0.0010	105	85	115			
Lead		0.0525	mg/L	0.0010	105	85	115			
Manganese		0.0518	mg/L	0.0010	104	85	115			
Molybdenum		0.0514	mg/L	0.0010	102	85	115			
Nickel		0.0520	mg/L	0.0010	103	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0513	mg/L	0.0010	103	85	115			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27897
Sample ID: MB-27897	8	Method Blank				Run: ICPMS4-C_101025A				10/25/10 15:03
Aluminum		0.002	mg/L	0.0008						
Beryllium		ND	mg/L	3E-05						
Cadmium		0.0002	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Manganese		0.0007	mg/L	2E-05						
Molybdenum		0.002	mg/L	0.00010						
Nickel		0.0002	mg/L	4E-05						
Vanadium		0.01	mg/L	4E-05						
Sample ID: LCS3-27897	8	Laboratory Control Sample				Run: ICPMS4-C_101025A				10/25/10 15:12
Aluminum		2.36	mg/L	0.10	94	85	115			
Beryllium		0.243	mg/L	0.010	97	85	115			
Cadmium		0.274	mg/L	0.010	109	85	115			
Cobalt		0.516	mg/L	0.010	103	85	115			
Manganese		2.49	mg/L	0.010	99	85	115			
Molybdenum		0.575	mg/L	0.10	115	85	115			
Nickel		0.531	mg/L	0.050	106	85	115			
Vanadium		0.530	mg/L	0.10	103	85	115			
Sample ID: C10100375-004CMS3	8	Sample Matrix Spike				Run: ICPMS4-C_101025A				10/25/10 18:31
Aluminum		2.25	mg/L	0.10	90	70	130			
Beryllium		0.232	mg/L	0.010	93	70	130			
Cadmium		0.282	mg/L	0.010	113	70	130			
Cobalt		0.498	mg/L	0.010	100	70	130			
Manganese		2.43	mg/L	0.010	97	70	130			
Molybdenum		0.583	mg/L	0.10	117	70	130			
Nickel		0.524	mg/L	0.050	105	70	130			
Vanadium		0.510	mg/L	0.10	100	70	130			
Sample ID: C10100375-004CMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101025A				10/25/10 18:37
Aluminum		2.12	mg/L	0.10	85	70	130	5.9	20	
Beryllium		0.220	mg/L	0.010	88	70	130	5.1	20	
Cadmium		0.266	mg/L	0.010	107	70	130	5.5	20	
Cobalt		0.465	mg/L	0.010	93	70	130	6.9	20	
Manganese		2.27	mg/L	0.010	91	70	130	6.8	20	
Molybdenum		0.553	mg/L	0.10	111	70	130	5.3	20	
Nickel		0.499	mg/L	0.050	100	70	130	5.0	20	
Vanadium		0.489	mg/L	0.10	95	70	130	4.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R138885	
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_101019A			10/20/10 01:07	
Chloride		9.58	mg/L	1.0	96	90	110			
Sulfate		37.6	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_101019A			10/20/10 01:23	
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10100372-002AMS	2	Sample Matrix Spike				Run: IC2-C_101019A			10/20/10 15:04	
Chloride		256	mg/L	4.0	101	80	120			
Sulfate		4940	mg/L	16		80	120			A
Sample ID: C10100372-002AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_101019A			10/20/10 15:20	
Chloride		259	mg/L	4.0	103	80	120	1.1	20	
Sulfate		4960	mg/L	16		80	120	0.4	20	A
Method: E300.0									Batch: R139016	
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101025A			10/25/10 17:29	
Sulfate		38.0	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_101025A			10/25/10 17:45	
Sulfate		ND	mg/L	0.2						
Sample ID: C10091252-001AMS		Sample Matrix Spike				Run: IC2-C_101025A			10/25/10 23:30	
Sulfate		682	mg/L	8.0	100	80	120			
Sample ID: C10091252-001AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101025A			10/25/10 23:46	
Sulfate		687	mg/L	8.0	102	80	120	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R138975
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101025A				10/25/10 12:27
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101025A				10/25/10 12:29
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Sample ID: C10100375-004DMS		Sample Matrix Spike				Run: TECHNICON_101025A				10/25/10 16:02
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	100	90	110			
Sample ID: C10100375-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101025A				10/25/10 16:04
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	2.0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138639
Sample ID: 101510_LCS_4	9	Laboratory Control Sample				Run: SATURNCA_101015C				10/15/10 14:17
Bromodichloromethane		10.8	ug/L	1.0	108	70	130			
Bromoform		10.6	ug/L	1.0	106	70	130			
Chlorodibromomethane		10.6	ug/L	1.0	106	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		43.2	ug/L	1.0	108	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	107	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: 101510_MBLK_6	9	Method Blank				Run: SATURNCA_101015C				10/15/10 15:29
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	105	80	120			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10100375-001HMS	9	Sample Matrix Spike				Run: SATURNCA_101015C				10/16/10 07:59
Bromodichloromethane		106	ug/L	10	106	70	130			
Bromoform		104	ug/L	10	104	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		152	ug/L	10	112	70	130			
Trihalomethanes, Total		461	ug/L	10	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	110	80	120			
Surr: Dibromofluoromethane				1.0	111	80	120			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: C10100375-001HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_101015C				10/16/10 08:35
Bromodichloromethane		102	ug/L	10	102	70	130	4.6	20	
Bromoform		106	ug/L	10	106	70	130	1.9	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	1.2	20	
Chloroform		140	ug/L	10	100	70	130	8.2	20	
Trihalomethanes, Total		448	ug/L	10	102	70	130	3.0	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	103	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	102	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138770
Sample ID: 101810_LCS_4	9	Laboratory Control Sample				Run: SATURNCA_101018A				10/18/10 12:17
Bromodichloromethane		9.48	ug/L	1.0	95	70	130			
Bromoform		9.64	ug/L	1.0	96	70	130			
Chlorodibromomethane		9.20	ug/L	1.0	92	70	130			
Chloroform		10.3	ug/L	1.0	103	70	130			
Trihalomethanes, Total		38.6	ug/L	1.0	97	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	113	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: 101810_MBLK_6	9	Method Blank				Run: SATURNCA_101018A				10/18/10 13:29
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	107	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C10100486-007AMS	9	Sample Matrix Spike				Run: SATURNCA_101018A				10/18/10 19:49
Bromodichloromethane		103	ug/L	10	103	70	130			
Bromoform		109	ug/L	10	109	70	130			
Chlorodibromomethane		104	ug/L	10	104	70	130			
Chloroform		117	ug/L	10	117	70	130			
Trihalomethanes, Total		433	ug/L	10	108	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	117	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	99	80	120			
Sample ID: C10100486-007AMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_101018A				10/18/10 20:26
Bromodichloromethane		102	ug/L	10	102	70	130	1.2	20	
Bromoform		108	ug/L	10	108	70	130	1.5	20	
Chlorodibromomethane		101	ug/L	10	101	70	130	3.5	20	
Chloroform		113	ug/L	10	113	70	130	3.5	20	
Trihalomethanes, Total		423	ug/L	10	106	70	130	2.4	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	112	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	100	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0373
Sample ID: MB-GA-0373	3	Method Blank				Run: G5000W_101115B				11/17/10 12:28
Gross Alpha minus Rn & U		-0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.7	pCi/L							
Sample ID: LCS-GA-0373		Laboratory Control Sample				Run: G5000W_101115B				11/17/10 12:28
Gross Alpha minus Rn & U		29.6	pCi/L		113	70	130			
Sample ID: C10110406-017BMS		Sample Matrix Spike				Run: G5000W_101115B				11/17/10 19:10
Gross Alpha minus Rn & U		28.0	pCi/L		105	70	130			
Sample ID: C10110406-017BMSD		Sample Matrix Spike Duplicate				Run: G5000W_101115B				11/17/10 19:10
Gross Alpha minus Rn & U		28.2	pCi/L		105	70	130	0.6	25.2	
Method: E900.1										Batch: GA-0363
Sample ID: MB-GA-0363	3	Method Blank				Run: G542M_101013B				10/18/10 17:07
Gross Alpha minus Rn & U		-0.3	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.2	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0363		Laboratory Control Sample				Run: G542M_101013B				10/18/10 17:07
Gross Alpha minus Rn & U		26.5	pCi/L		102	70	130			
Sample ID: C10100315-001DMS		Sample Matrix Spike				Run: G542M_101013B				10/18/10 17:07
Gross Alpha minus Rn & U		55.5	pCi/L		105	70	130			
Sample ID: C10100315-001DMSD		Sample Matrix Spike Duplicate				Run: G542M_101013B				10/18/10 17:07
Gross Alpha minus Rn & U		57.1	pCi/L		108	70	130	2.7	21.7	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4921
Sample ID: C10100372-001GMS		Sample Matrix Spike				Run: TENNELEC-3_101020F				11/03/10 00:48
Radium 226		23	pCi/L		72	70	130			
Sample ID: C10100372-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101020F				11/03/10 00:48
Radium 226		23	pCi/L		75	70	130	2.0	19.8	
Sample ID: MB-RA226-4921	3	Method Blank				Run: TENNELEC-3_101020F				11/03/10 02:57
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4921		Laboratory Control Sample				Run: TENNELEC-3_101020F				11/03/10 02:57
Radium 226		8.0	pCi/L		101	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1271
Sample ID: LCS-RA-TH-ISO-1271		Laboratory Control Sample				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		4.8	pCi/L		88	70	130			
Sample ID: C10100381-002DMS		Sample Matrix Spike				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		8.6	pCi/L		66	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.										
Sample ID: C10100381-002DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		12	pCi/L		93	70	130	33	41.5	
Sample ID: MB-RA-TH-ISO-1271	3	Method Blank				Run: EGG-ORTEC_101019B				10/22/10 08:37
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: T_PB-210-0032	
Sample ID: MB-PB-210-0032	3	Method Blank				Run: SUB-T37502			10/29/10 09:34	
Lead 210		0.02	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0032		Laboratory Control Sample				Run: SUB-T37502			10/29/10 13:57	
Lead 210		42	pCi/L		76	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37502			10/29/10 18:20	
Lead 210		56	pCi/L		103	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37502			10/29/10 20:32	
Lead 210		58	pCi/L		106	70	130	0.0	15.7	
Method: E909.0M									Batch: T_PB-210-0033	
Sample ID: MB-PB-210-0033	3	Method Blank				Run: SUB-T37649			11/08/10 12:54	
Lead 210		0.9	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0033		Laboratory Control Sample				Run: SUB-T37649			11/08/10 16:59	
Lead 210		61	pCi/L		110	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37649			11/08/10 21:04	
Lead 210		70	pCi/L		126	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37649			11/08/10 23:06	
Lead 210		61	pCi/L		110	70	130	14	15.4	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100375

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3455
Sample ID: LCS-228-RA226-4921		Laboratory Control Sample				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		8.1	pCi/L		108	70	130			
Sample ID: MB-RA226-4921	3	Method Blank				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		0.2	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10100372-002GMS		Sample Matrix Spike				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		35	pCi/L		106	70	130			
Sample ID: C10100372-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		35	pCi/L		105	70	130	0.7	24.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

November 22, 2010

United Nuclear Corporation
21 Miles NE of Gallup
Gallup, NM 87305

Workorder No.: C10100651 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 6 samples for United Nuclear Corporation on 10/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100651-001	EPA-4	10/11/10 09:06	10/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10100651-002	EPA-5	10/11/10 10:07	10/15/10	Aqueous	Same As Above
C10100651-003	EPA-7	10/11/10 10:50	10/15/10	Aqueous	Same As Above
C10100651-004	EPA-2	10/11/10 11:40	10/15/10	Aqueous	Same As Above
C10100651-005	EPA-2 Duplicate	10/11/10 12:11	10/15/10	Aqueous	Same As Above
C10100651-006	TWQ-142	10/12/10 12:58	10/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.22 12:16:51 -07:00

CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10100651

Report Date: 11/22/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138622
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101015B				10/15/10 16:15
Alkalinity, Total as CaCO3		ND	mg/L	5.0						
Bicarbonate as HCO3		ND	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101015B				10/15/10 16:31
Alkalinity, Total as CaCO3		217	mg/L	5.0	108	90	110			
Sample ID: C10100651-005ADUP	2	Sample Duplicate				Run: MANTECH_101015B				10/16/10 00:11
Alkalinity, Total as CaCO3		286	mg/L	5.0				0.0	10	
Bicarbonate as HCO3		349	mg/L	5.0				0.0	10	
Sample ID: C10100652-016AMS		Sample Matrix Spike				Run: MANTECH_101015B				10/16/10 02:07
Alkalinity, Total as CaCO3		147	mg/L	5.0	111	80	120			
Method: A2320 B										Batch: R138675
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101018A				10/18/10 16:44
Alkalinity, Total as CaCO3		ND	mg/L	5.0						
Bicarbonate as HCO3		ND	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101018A				10/18/10 16:59
Alkalinity, Total as CaCO3		221	mg/L	5.0	110	90	110			
Sample ID: C10100674-001ADUP	2	Sample Duplicate				Run: MANTECH_101018A				10/18/10 19:40
Alkalinity, Total as CaCO3		326	mg/L	5.0				0.9	10	
Bicarbonate as HCO3		398	mg/L	5.0				0.9	10	
Sample ID: C10100674-001AMS		Sample Matrix Spike				Run: MANTECH_101018A				10/18/10 19:49
Alkalinity, Total as CaCO3		468	mg/L	5.0	111	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101015_1_SLDS-TDS-W	
Sample ID: MBLK1_101015		Method Blank				Run: BAL-1_101015B			10/15/10 15:49	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101015		Laboratory Control Sample				Run: BAL-1_101015B			10/15/10 15:49	
Solids, Total Dissolved TDS @ 180 C		1030	mg/L	10	103	90	110			
Sample ID: C10100651-002AMS		Sample Matrix Spike				Run: BAL-1_101015B			10/15/10 15:59	
Solids, Total Dissolved TDS @ 180 C		5950	mg/L	11	100	90	110			
Sample ID: C10100651-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101015B			10/15/10 15:59	
Solids, Total Dissolved TDS @ 180 C		5940	mg/L	11	100	90	110	0.2	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27979
Sample ID: MB-27979		Method Blank				Run: CVAA-C202_101027B			10/27/10 12:10	
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-27979		Laboratory Control Sample				Run: CVAA-C202_101027B			10/27/10 12:15	
Selenium-IV		0.0532	mg/L	0.0010	106	90	110			
Sample ID: C10100829-001FMS		Sample Matrix Spike				Run: CVAA-C202_101027B			10/27/10 12:22	
Selenium-IV		0.0420	mg/L	0.0010	84	85	115			S
Sample ID: C10100829-001FMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101027B			10/27/10 12:24	
Selenium-IV		0.0519	mg/L	0.0010	104	85	115	21	10	R

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_101015B	
Sample ID: ICV1_101015_2		Initial Calibration Verification Standard							10/15/10 15:01	
pH		6.88	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 101015_2_PH-W_555A-2	
Sample ID: C10100651-001ADUP		Sample Duplicate				Run: ORION555A-2_101015B			10/15/10 16:01	
pH		7.56	s.u.	0.010				0.7	10	
Sample ID: C10100651-006ADUP		Sample Duplicate				Run: ORION555A-2_101015B			10/15/10 17:20	
pH		7.78	s.u.	0.010				0.5	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R139098
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101027A				10/27/10 10:02
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101027A				10/27/10 10:17
Nitrogen, Ammonia as N		19.8	mg/L	0.50	99	80	120			
Sample ID: C10100607-011DMS		Sample Matrix Spike				Run: TECHNICON_101027A				10/27/10 12:01
Nitrogen, Ammonia as N		2.18	mg/L	0.050	103	80	120			
Sample ID: C10100607-011DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101027A				10/27/10 12:03
Nitrogen, Ammonia as N		2.23	mg/L	0.050	105	80	120	2.3	20	
Method: A4500-NH3 G										Batch: R139245
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101029A				10/29/10 13:30
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101029A				10/29/10 13:32
Nitrogen, Ammonia as N		19.1	mg/L	0.50	95	80	120			
Sample ID: C10100651-006DMS		Sample Matrix Spike				Run: TECHNICON_101029A				10/29/10 14:10
Nitrogen, Ammonia as N		2.19	mg/L	0.050	94	80	120			
Sample ID: C10100651-006DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101029A				10/29/10 14:12
Nitrogen, Ammonia as N		2.24	mg/L	0.050	96	80	120	2.3	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R67318
Sample ID: ICB_13r		Method Blank				Run: SUB-H67318				11/17/10 16:03
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101117-LFB		Laboratory Fortified Blank				Run: SUB-H67318				11/17/10 14:40
Arsenic-III		4.76	ug/L	1.0	95	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike				Run: SUB-H67318				11/17/10 16:28
Arsenic-III		7.36	ug/L	2.0	87	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike Duplicate				Run: SUB-H67318				11/17/10 16:35
Arsenic-III		7.32	ug/L	2.0	86	55	146	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R139124
Sample ID: MB-101027A	4	Method Blank				Run: ICP2-C_101027A				10/27/10 14:27
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101027A	4	Laboratory Fortified Blank				Run: ICP2-C_101027A				10/27/10 14:31
Calcium		48.7	mg/L	0.50	97	85	115			
Magnesium		48.5	mg/L	0.50	97	85	115			
Potassium		44.8	mg/L	0.50	90	85	115			
Sodium		50.0	mg/L	0.50	100	85	115			
Sample ID: C10100651-002BMS2	4	Sample Matrix Spike				Run: ICP2-C_101027A				10/27/10 18:19
Calcium		691	mg/L	1.1	89	70	130			
Magnesium		718	mg/L	1.0	93	70	130			
Potassium		235	mg/L	1.0	89	70	130			
Sodium		374	mg/L	1.4	100	70	130			
Sample ID: C10100651-002BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101027A				10/27/10 18:23
Calcium		705	mg/L	1.1	94	70	130	2.0	20	
Magnesium		729	mg/L	1.0	98	70	130	1.6	20	
Potassium		233	mg/L	1.0	88	70	130	0.7	20	
Sodium		373	mg/L	1.4	100	70	130	0.4	20	
Method: E200.7										Batch: R139246
Sample ID: MB-101029A		Method Blank				Run: ICP2-C_101029A				10/29/10 12:41
Manganese		ND	mg/L	0.0004						
Sample ID: LFB-101029A		Laboratory Fortified Blank				Run: ICP2-C_101029A				10/29/10 12:45
Manganese		0.941	mg/L	0.010	94	85	115			
Sample ID: C10100724-007EMS2		Sample Matrix Spike				Run: ICP2-C_101029A				10/29/10 19:37
Manganese		2.05	mg/L	0.010	92	70	130			
Sample ID: C10100724-007EMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_101029A				10/29/10 19:41
Manganese		2.08	mg/L	0.010	94	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R139606
Sample ID: MB-101108A	4	Method Blank				Run: ICP2-C_101108A				11/08/10 11:53
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101108A	4	Laboratory Fortified Blank				Run: ICP2-C_101108A				11/08/10 11:57
Calcium		48.6	mg/L	0.50	97	85	115			
Magnesium		48.4	mg/L	0.50	97	85	115			
Potassium		44.1	mg/L	0.50	88	85	115			
Sodium		49.1	mg/L	0.50	98	85	115			
Sample ID: C10100569-003BMS2	4	Sample Matrix Spike				Run: ICP2-C_101108A				11/08/10 12:57
Calcium		101	mg/L	1.0	94	70	130			
Magnesium		98.6	mg/L	1.0	95	70	130			
Potassium		94.0	mg/L	1.0	91	70	130			
Sodium		177	mg/L	1.0	100	70	130			
Sample ID: C10100569-003BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101108A				11/08/10 13:01
Calcium		105	mg/L	1.0	98	70	130	3.3	20	
Magnesium		101	mg/L	1.0	98	70	130	2.7	20	
Potassium		95.0	mg/L	1.0	92	70	130	1.1	20	
Sodium		179	mg/L	1.0	102	70	130	1.0	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27966
Sample ID: MB-27966	9	Method Blank				Run: ICPMS2-C_101028A				10/29/10 07:14
Aluminum		ND	mg/L	0.01						
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		0.0001	mg/L	5E-05						
Manganese		0.0002	mg/L	9E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		0.0001	mg/L	8E-05						
Vanadium		0.002	mg/L	0.0005						
Sample ID: LCS3-27966	9	Laboratory Control Sample				Run: ICPMS2-C_101028A				10/29/10 07:21
Aluminum		2.58	mg/L	0.10	103	85	115			
Beryllium		0.280	mg/L	0.010	112	85	115			
Cadmium		0.265	mg/L	0.010	106	85	115			
Cobalt		0.504	mg/L	0.010	101	85	115			
Lead		0.550	mg/L	0.050	110	85	115			
Manganese		2.50	mg/L	0.010	100	85	115			
Molybdenum		0.559	mg/L	0.10	112	85	115			
Nickel		0.500	mg/L	0.050	100	85	115			
Vanadium		0.525	mg/L	0.10	105	85	115			
Sample ID: C10100651-006CMS3	9	Sample Matrix Spike				Run: ICPMS2-C_101028A				10/29/10 08:36
Aluminum		3.08	mg/L	0.10	110	70	130			
Beryllium		0.256	mg/L	0.010	102	70	130			
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.476	mg/L	0.010	95	70	130			
Lead		0.556	mg/L	0.050	111	70	130			
Manganese		2.38	mg/L	0.010	94	70	130			
Molybdenum		0.578	mg/L	0.10	115	70	130			
Nickel		0.484	mg/L	0.050	96	70	130			
Vanadium		0.507	mg/L	0.10	101	70	130			
Sample ID: C10100651-006CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_101028A				10/29/10 08:42
Aluminum		2.94	mg/L	0.10	104	70	130	4.5	20	
Beryllium		0.244	mg/L	0.010	98	70	130	4.8	20	
Cadmium		0.238	mg/L	0.010	95	70	130	3.1	20	
Cobalt		0.454	mg/L	0.010	91	70	130	4.8	20	
Lead		0.531	mg/L	0.050	106	70	130	4.5	20	
Manganese		2.26	mg/L	0.010	89	70	130	5.3	20	
Molybdenum		0.549	mg/L	0.10	109	70	130	5.3	20	
Nickel		0.458	mg/L	0.050	91	70	130	5.5	20	
Vanadium		0.480	mg/L	0.10	95	70	130	5.5	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R139312
Sample ID: LRB	6	Method Blank				Run: ICPMS2-C_101101A			11/01/10 13:43	
Aluminum		0.002	mg/L	0.0001						
Beryllium		ND	mg/L	3E-05						
Cobalt		ND	mg/L	2E-05						
Lead		3E-05	mg/L	3E-05						
Uranium		2E-05	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Sample ID: LFB	6	Laboratory Fortified Blank				Run: ICPMS2-C_101101A			11/01/10 13:49	
Aluminum		0.0525	mg/L	0.0010	101	85	115			
Beryllium		0.0518	mg/L	0.0010	104	85	115			
Cobalt		0.0526	mg/L	0.0010	105	85	115			
Lead		0.0530	mg/L	0.0010	106	85	115			
Uranium		0.0525	mg/L	0.00030	105	85	115			
Vanadium		0.0520	mg/L	0.0010	104	85	115			
Sample ID: C10101070-008CMS4	6	Sample Matrix Spike				Run: ICPMS2-C_101101A			11/02/10 02:18	
Aluminum		0.0529	mg/L	0.0010	96	70	130			
Beryllium		0.0498	mg/L	0.010	100	70	130			
Cobalt		0.0467	mg/L	0.010	93	70	130			
Lead		0.0522	mg/L	0.050	104	70	130			
Uranium		0.341	mg/L	0.00030		70	130			A
Vanadium		0.225	mg/L	0.10	104	70	130			
Sample ID: C10101070-008CMSD	6	Sample Matrix Spike Duplicate				Run: ICPMS2-C_101101A			11/02/10 02:24	
Aluminum		0.0527	mg/L	0.0010	95	70	130	0.3	20	
Beryllium		0.0498	mg/L	0.010	100	70	130	0.0	20	
Cobalt		0.0460	mg/L	0.010	92	70	130	1.4	20	
Lead		0.0531	mg/L	0.050	105	70	130	1.6	20	
Uranium		0.349	mg/L	0.00030		70	130	2.4	20	A
Vanadium		0.222	mg/L	0.10	98	70	130	1.5	20	
Method: E200.8										Batch: 27966
Sample ID: MB-27966		Method Blank				Run: ICPMS2-C_101108A			11/08/10 16:03	
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-27966		Laboratory Control Sample				Run: ICPMS2-C_101108A			11/08/10 16:08	
Uranium		0.569	mg/L	0.00030	114	85	115			
Sample ID: C10100651-006CMS3		Sample Matrix Spike				Run: ICPMS2-C_101108A			11/08/10 16:53	
Uranium		0.568	mg/L	0.00030	113	70	130			
Sample ID: C10100651-006CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_101108A			11/08/10 16:57	
Uranium		0.560	mg/L	0.00030	112	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R139049A
Sample ID: C10100651-004CMS4	3	Sample Matrix Spike				Run: ICPMS4-C_101026A			10/26/10 16:10	
Cadmium		0.0496	mg/L	0.010	99	70	130			
Molybdenum		0.0520	mg/L	0.0010	101	70	130			
Nickel		0.0480	mg/L	0.0010	95	70	130			
Sample ID: C10100651-004CMSD	3	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101026A			10/26/10 16:17	
Cadmium		0.0502	mg/L	0.010	100	70	130	1.2	20	
Molybdenum		0.0538	mg/L	0.0010	105	70	130	3.5	20	
Nickel		0.0481	mg/L	0.0010	95	70	130	0.4	20	
Sample ID: LRB	3	Method Blank				Run: ICPMS4-C_101026A			10/26/10 13:12	
Cadmium		ND	mg/L	7E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Sample ID: LFB	3	Laboratory Fortified Blank				Run: ICPMS4-C_101026A			10/26/10 13:19	
Cadmium		0.0542	mg/L	0.0010	108	85	115			
Molybdenum		0.0532	mg/L	0.0010	106	85	115			
Nickel		0.0517	mg/L	0.0010	103	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R139122
Sample ID: LCS	2	Laboratory Control Sample				Run: IC1-C_101026A				10/26/10 18:14
Chloride		9.24	mg/L	1.0	92	90	110			
Sulfate		37.6	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC1-C_101026A				10/26/10 18:32
Chloride		ND	mg/L	0.01						
Sulfate		ND	mg/L	0.06						
Sample ID: C10100652-003AMS	2	Sample Matrix Spike				Run: IC1-C_101026A				10/27/10 13:23
Chloride		224	mg/L	4.0	108	80	120			
Sulfate		4270	mg/L	16		80	120			A
Sample ID: C10100652-003AMSD	2	Sample Matrix Spike Duplicate				Run: IC1-C_101026A				10/27/10 13:41
Chloride		231	mg/L	4.0	112	80	120	3.3	20	
Sulfate		4250	mg/L	16		80	120	0.2	20	A
Method: E300.0										Batch: R139705
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101108A				11/08/10 22:48
Sulfate		37.5	mg/L	1.0	94	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_101108A				11/08/10 23:04
Sulfate		ND	mg/L	0.2						
Sample ID: C10110227-010AMS		Sample Matrix Spike				Run: IC2-C_101108A				11/10/10 12:42
Sulfate		255	mg/L	4.0	98	80	120			
Sample ID: C10110227-010AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101108A				11/10/10 12:58
Sulfate		257	mg/L	4.0	103	80	120	0.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R139475
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101104A				11/04/10 14:17
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101104A				11/04/10 14:19
Nitrogen, Nitrate+Nitrite as N		2.34	mg/L	0.10	94	90	110			
Sample ID: C10100651-005DMS		Sample Matrix Spike				Run: TECHNICON_101104A				11/04/10 14:34
Nitrogen, Nitrate+Nitrite as N		1.98	mg/L	0.10	97	90	110			
Sample ID: C10100651-005DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101104A				11/04/10 14:37
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	98	90	110	1.5	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R138757	
Sample ID: 19-Oct-10_LCS_4	9	Laboratory Control Sample				Run: 5975VOC1_101019A			10/19/10 13:27	
Bromodichloromethane		8.96	ug/L	1.0	90	70	130			
Bromoform		9.36	ug/L	1.0	94	70	130			
Chlorodibromomethane		8.92	ug/L	1.0	89	70	130			
Chloroform		8.56	ug/L	1.0	86	70	130			
Trihalomethanes, Total		35.8	ug/L	1.0	90	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	85	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 19-Oct-10_MBLK_6	9	Method Blank				Run: 5975VOC1_101019A			10/19/10 15:28	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	130	80	120			S
Surr: Dibromofluoromethane				1.0	87	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	94	80	120			
Sample ID: C10100586-001AMS	9	Sample Matrix Spike				Run: 5975VOC1_101019A			10/20/10 02:02	
Bromodichloromethane		194	ug/L	20	97	70	130			
Bromoform		198	ug/L	20	99	70	130			
Chlorodibromomethane		188	ug/L	20	94	70	130			
Chloroform		196	ug/L	20	98	70	130			
Trihalomethanes, Total		775	ug/L	20	97	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	100	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: C10100586-001AMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_101019A			10/20/10 02:38	
Bromodichloromethane		202	ug/L	20	101	70	130	4.0	20	
Bromoform		209	ug/L	20	104	70	130	5.5	20	
Chlorodibromomethane		199	ug/L	20	100	70	130	5.8	20	
Chloroform		206	ug/L	20	103	70	130	5.2	20	
Trihalomethanes, Total		816	ug/L	20	102	70	130	5.1	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	116	80	120			
Surr: Dibromofluoromethane				1.0	100	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	104	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138829
Sample ID: 20-Oct-10_LCS_5	9	Laboratory Control Sample				Run: 5975VOC1_101020D			10/20/10 14:57	
Bromodichloromethane		8.40	ug/L	1.0	84	70	130			
Bromoform		8.80	ug/L	1.0	88	70	130			
Chlorodibromomethane		8.44	ug/L	1.0	84	70	130			
Chloroform		7.76	ug/L	1.0	78	70	130			
Trihalomethanes, Total		33.4	ug/L	1.0	84	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	83	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 20-Oct-10_MBLK_7	9	Method Blank				Run: 5975VOC1_101020D			10/20/10 16:08	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	127	80	120			S
Surr: Dibromofluoromethane				1.0	84	80	120			
Surr: p-Bromofluorobenzene				1.0	110	80	120			
Surr: Toluene-d8				1.0	96	80	120			
Sample ID: C10100586-003AMS	9	Sample Matrix Spike				Run: 5975VOC1_101020D			10/20/10 23:15	
Bromodichloromethane		1020	ug/L	100	102	70	130			
Bromoform		1040	ug/L	100	104	70	130			
Chlorodibromomethane		996	ug/L	100	100	70	130			
Chloroform		1000	ug/L	100	100	70	130			
Trihalomethanes, Total		4060	ug/L	100	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	93	80	120			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: C10100586-003AMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_101020D			10/20/10 23:50	
Bromodichloromethane		1050	ug/L	100	105	70	130	3.1	20	
Bromoform		1090	ug/L	100	109	70	130	4.1	20	
Chlorodibromomethane		1040	ug/L	100	104	70	130	4.3	20	
Chloroform		992	ug/L	100	99	70	130	0.8	20	
Trihalomethanes, Total		4170	ug/L	100	104	70	130	2.7	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	94	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	103	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0368
Sample ID: MB-GA-0368	3	Method Blank				Run: G5000W_101025B				10/28/10 22:29
Gross Alpha minus Rn & U		-0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0368		Laboratory Control Sample				Run: G5000W_101025B				10/28/10 22:29
Gross Alpha minus Rn & U		28.4	pCi/L		108	70	130			
Sample ID: C10100651-005GMS		Sample Matrix Spike				Run: G5000W_101025B				10/29/10 00:12
Gross Alpha minus Rn & U		26.4	pCi/L		95	70	130			
Sample ID: C10100651-005GMSD		Sample Matrix Spike Duplicate				Run: G5000W_101025B				10/29/10 00:12
Gross Alpha minus Rn & U		29.5	pCi/L		107	70	130	11	23.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4952
Sample ID: C10100651-001GMS		Sample Matrix Spike				Run: TENNELEC-3_101101F			11/09/10 12:03	
Radium 226		13	pCi/L		77	70	130			
Sample ID: C10100651-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101101F			11/09/10 12:03	
Radium 226		15	pCi/L		86	70	130	9.9	23.6	
Sample ID: MB-RA226-4952	3	Method Blank				Run: TENNELEC-3_101101F			11/09/10 12:03	
Radium 226		0.3	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Sample ID: LCS-RA226-4952		Laboratory Control Sample				Run: TENNELEC-3_101101F			11/09/10 12:03	
Radium 226		16	pCi/L		100	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1280	
Sample ID: LCS-RA-TH-ISO-1280		Laboratory Control Sample				Run: EGG-ORTEC_101104A			11/08/10 08:57	
Thorium 230		5.9	pCi/L		98	70	130			
Sample ID: C10100869-006DMS		Sample Matrix Spike				Run: EGG-ORTEC_101104A			11/08/10 08:57	
Thorium 230		12	pCi/L		97	70	130			
Sample ID: C10100869-006DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_101104A			11/08/10 08:57	
Thorium 230		13	pCi/L		100	70	130	2.6	39.4	
Sample ID: MB-RA-TH-ISO-1280	3	Method Blank				Run: EGG-ORTEC_101104A			11/08/10 16:20	
Thorium 230		-0.006	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: T_PB-210-0033	
Sample ID: MB-PB-210-0033	3	Method Blank				Run: SUB-T37649			11/08/10 12:54	
Lead 210		0.9	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0033		Laboratory Control Sample				Run: SUB-T37649			11/08/10 16:59	
Lead 210		61	pCi/L		110	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37649			11/08/10 21:04	
Lead 210		70	pCi/L		126	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37649			11/08/10 23:06	
Lead 210		61	pCi/L		110	70	130	14	15.4	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 11/22/10
Work Order: C10100651

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3469
Sample ID: LCS-228-RA226-4952		Laboratory Control Sample				Run: TENNELEC-3_101101C			11/04/10 16:17	
Radium 228		7.00	pCi/L		90	70	130			
Sample ID: MB-RA226-4952	3	Method Blank				Run: TENNELEC-3_101101C			11/04/10 16:17	
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		2	pCi/L							
Radium 228 MDC		3	pCi/L							
Sample ID: C10100767-001JMS		Sample Matrix Spike				Run: TENNELEC-3_101101C			11/04/10 16:17	
Radium 228		15.0	pCi/L		99	70	130			
Sample ID: C10100767-001JMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101101C			11/04/10 16:17	
Radium 228		15.2	pCi/L		100	70	130	1.3	38.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

November 19, 2010

United Nuclear Corporation
21 Miles NE of Gallup
Gallup, NM 87305

Workorder No.: C10100372 Quote ID: C129 - Quarterly Long List
Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corporation on 10/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100372-001	613	10/05/10 11:30	10/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10100372-002	EPA-14	10/05/10 12:10	10/08/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.19 17:58:35 -07:00

CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10100372

Report Date: 11/19/10

CASE NARRATIVE

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138344
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101008B				10/08/10 15:55
Alkalinity, Total as CaCO3		1.16	mg/L	5.0						
Bicarbonate as HCO3		1.42	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101008B				10/08/10 16:11
Alkalinity, Total as CaCO3		214	mg/L	5.0	106	90	110			
Sample ID: C10100370-001ADUP	2	Sample Duplicate				Run: MANTECH_101008B				10/09/10 03:36
Alkalinity, Total as CaCO3		566	mg/L	5.0				0.3	10	
Bicarbonate as HCO3		690	mg/L	5.0				0.3	10	
Sample ID: C10100370-001AMS		Sample Matrix Spike				Run: MANTECH_101008B				10/09/10 03:45
Alkalinity, Total as CaCO3		706	mg/L	5.0	111	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101008_1_SLDS-TDS-W	
Sample ID: MBLK1_101008		Method Blank				Run: BAL-1_101008B			10/11/10 10:47	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101008		Laboratory Control Sample				Run: BAL-1_101008B			10/11/10 10:47	
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C10100372-002AMS		Sample Matrix Spike				Run: BAL-1_101008B			10/11/10 10:58	
Solids, Total Dissolved TDS @ 180 C		9750	mg/L	17	94	90	110			
Sample ID: C10100372-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101008B			10/11/10 10:58	
Solids, Total Dissolved TDS @ 180 C		9760	mg/L	17	94	90	110	0.1	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27769
Sample ID: MB-27769		Method Blank				Run: CVAA-C202_101009A			10/09/10 12:30	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-27769		Laboratory Control Sample				Run: CVAA-C202_101009A			10/09/10 12:32	
Selenium-IV		0.0494	mg/L	0.0010	99	90	110			
Sample ID: C10100375-001CMS		Sample Matrix Spike				Run: CVAA-C202_101009A			10/09/10 13:41	
Selenium-IV		0.0407	mg/L	0.0010	80	85	115			S
Sample ID: C10100375-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101009A			10/09/10 13:43	
Selenium-IV		0.0420	mg/L	0.0010	83	85	115	3.2	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_101011A		
Sample ID: ICV1_101011_1		Initial Calibration Verification Standard							10/11/10 09:25	
pH		6.89	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 101011_1_PH-W_555A-2		
Sample ID: C10100370-005ADUP		Sample Duplicate				Run: ORION555A-2_101011A			10/11/10 11:01	
pH		7.80	s.u.	0.010				0.3	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R138802
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101020B				10/20/10 21:44
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101020B				10/20/10 21:48
Nitrogen, Ammonia as N		19.2	mg/L	0.50	96	80	120			
Sample ID: C10100364-016DMS		Sample Matrix Spike				Run: TECHNICON_101020B				10/20/10 23:02
Nitrogen, Ammonia as N		2.11	mg/L	0.050	102	80	120			
Sample ID: C10100364-016DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101020B				10/20/10 23:04
Nitrogen, Ammonia as N		2.12	mg/L	0.050	103	80	120	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R67258	
Sample ID: ICB_13r		Method Blank				Run: SUB-H67258			11/16/10 13:09	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101116-LFB		Laboratory Control Sample				Run: SUB-H67258			11/16/10 13:21	
Arsenic-III		5.02	ug/L	5.0	100	85	115			
Sample ID: H10100218-001EMS		Sample Matrix Spike				Run: SUB-H67258			11/16/10 15:03	
Arsenic-III		7.48	ug/L	2.0	143	55	146			
Sample ID: H10100218-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-H67258			11/16/10 15:10	
Arsenic-III		8.26	ug/L	2.0	159	55	146	9.9	20	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R138980
Sample ID: LFB-101025A	4	Laboratory Fortified Blank				Run: ICP2-C_101025A				10/25/10 10:29
Calcium		49.7	mg/L	0.50	99	85	115			
Magnesium		49.0	mg/L	0.50	98	85	115			
Potassium		45.8	mg/L	0.50	92	85	115			
Sodium		49.9	mg/L	0.50	100	85	115			
Sample ID: MB-101025A	4	Method Blank				Run: ICP2-C_101025A				10/25/10 10:39
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: C10100372-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_101025A				10/25/10 11:31
Calcium		888	mg/L	2.3	89	70	130			
Magnesium		1170	mg/L	1.0	92	70	130			
Potassium		447	mg/L	1.0	88	70	130			
Sodium		777	mg/L	2.9	100	70	130			
Sample ID: C10100372-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101025A				10/25/10 11:35
Calcium		914	mg/L	2.3	94	70	130	2.8	20	
Magnesium		1170	mg/L	1.0	91	70	130	0.4	20	
Potassium		457	mg/L	1.0	89	70	130	2.1	20	
Sodium		772	mg/L	2.9	99	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 27897
Sample ID: MB-27897		Method Blank				Run: ICP2-C_101026A				10/26/10 16:13
Aluminum		ND	mg/L	0.01						
Sample ID: LCS3-27897		Laboratory Control Sample				Run: ICP2-C_101026A				10/26/10 16:17
Aluminum		2.71	mg/L	0.10	108	85	115			
Sample ID: C10100375-004CMS3		Sample Matrix Spike				Run: ICP2-C_101026A				10/26/10 18:06
Aluminum		2.71	mg/L	0.10	108	70	130			
Sample ID: C10100375-004CMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_101026A				10/26/10 18:10
Aluminum		2.53	mg/L	0.10	101	70	130	6.9	20	
Method: E200.7										Batch: R139036
Sample ID: MB-101026A		Method Blank				Run: ICP2-C_101026A				10/26/10 13:19
Aluminum		ND	mg/L	0.01						
Sample ID: LFB-101026A		Laboratory Fortified Blank				Run: ICP2-C_101026A				10/26/10 13:23
Aluminum		0.899	mg/L	0.10	90	85	115			
Sample ID: C10100424-001BMS2		Sample Matrix Spike				Run: ICP2-C_101026A				10/26/10 14:19
Aluminum		1.84	mg/L	0.10	90	70	130			
Sample ID: C10100424-001BMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_101026A				10/26/10 14:23
Aluminum		1.90	mg/L	0.10	93	70	130	3.2	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R139437
Sample ID: MB-101103A	4	Method Blank				Run: ICP2-C_101103A				11/03/10 12:38
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101103A	4	Laboratory Fortified Blank				Run: ICP2-C_101103A				11/03/10 12:42
Calcium		46.3	mg/L	0.50	93	85	115			
Magnesium		45.5	mg/L	0.50	91	85	115			
Potassium		44.7	mg/L	0.50	89	85	115			
Sodium		47.1	mg/L	0.50	94	85	115			
Sample ID: C10091088-001CMS2	4	Sample Matrix Spike				Run: ICP2-C_101103A				11/03/10 13:35
Calcium		168	mg/L	1.0	98	70	130			
Magnesium		104	mg/L	1.0	95	70	130			
Potassium		100	mg/L	1.0	92	70	130			
Sodium		122	mg/L	1.0	99	70	130			
Sample ID: C10091088-001CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101103A				11/03/10 13:39
Calcium		168	mg/L	1.0	98	70	130	0.1	20	
Magnesium		104	mg/L	1.0	95	70	130	0.0	20	
Potassium		98.7	mg/L	1.0	91	70	130	1.4	20	
Sodium		122	mg/L	1.0	99	70	130	0.0	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27897
Sample ID: MB-27897		Method Blank				Run: ICPMS2-C_101101A				11/01/10 21:47
Lead		0.00010	mg/L	5E-05						
Sample ID: LCS3-27897		Laboratory Control Sample				Run: ICPMS2-C_101101A				11/01/10 21:54
Lead		0.547	mg/L	0.050	109	85	115			
Sample ID: C10100375-004CMS3		Sample Matrix Spike				Run: ICPMS2-C_101101A				11/01/10 22:34
Lead		0.565	mg/L	0.050	113	70	130			
Sample ID: C10100375-004CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_101101A				11/01/10 22:41
Lead		0.525	mg/L	0.050	105	70	130	7.2	20	
Method: E200.8										Batch: 27897
Sample ID: MB-27897		Method Blank				Run: ICPMS2-C_101108A				11/08/10 15:05
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-27897		Laboratory Control Sample				Run: ICPMS2-C_101108A				11/08/10 15:10
Uranium		0.559	mg/L	0.00030	112	85	115			
Sample ID: C10100375-004CMS3		Sample Matrix Spike				Run: ICPMS2-C_101108A				11/08/10 15:51
Uranium		0.576	mg/L	0.00030	115	70	130			
Sample ID: C10100375-004CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_101108A				11/08/10 15:55
Uranium		0.536	mg/L	0.00030	107	70	130	7.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R138831A
Sample ID: C10100375-001CMS4	9	Sample Matrix Spike				Run: ICPMS4-C_101020A			10/21/10 08:15	
Beryllium		0.286	mg/L	0.010	115	70	130			
Cadmium		0.250	mg/L	0.010	100	70	130			
Cobalt		0.269	mg/L	0.010	105	70	130			
Lead		0.265	mg/L	0.050	105	70	130			
Manganese		1.01	mg/L	0.010	113	70	130			
Molybdenum		0.262	mg/L	0.10	105	70	130			
Nickel		0.256	mg/L	0.050	100	70	130			
Uranium		0.315	mg/L	0.00030	105	70	130			
Vanadium		0.260	mg/L	0.10	104	70	130			
Sample ID: C10100375-001CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101020A			10/21/10 08:22	
Beryllium		0.290	mg/L	0.010	116	70	130	1.2	20	
Cadmium		0.255	mg/L	0.010	102	70	130	1.7	20	
Cobalt		0.276	mg/L	0.010	107	70	130	2.3	20	
Lead		0.274	mg/L	0.050	109	70	130	3.4	20	
Manganese		1.04	mg/L	0.010	125	70	130	3.0	20	
Molybdenum		0.267	mg/L	0.10	107	70	130	2.0	20	
Nickel		0.264	mg/L	0.050	103	70	130	3.0	20	
Uranium		0.324	mg/L	0.00030	109	70	130	2.8	20	
Vanadium		0.269	mg/L	0.10	107	70	130	3.3	20	
Sample ID: LRB	9	Method Blank				Run: ICPMS4-C_101020A			10/20/10 18:07	
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Molybdenum		0.0002	mg/L	8E-05						
Nickel		0.0003	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS4-C_101020A			10/21/10 10:46	
Beryllium		0.0495	mg/L	0.0010	99	85	115			
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Cobalt		0.0524	mg/L	0.0010	105	85	115			
Lead		0.0525	mg/L	0.0010	105	85	115			
Manganese		0.0518	mg/L	0.0010	104	85	115			
Molybdenum		0.0514	mg/L	0.0010	102	85	115			
Nickel		0.0520	mg/L	0.0010	103	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0513	mg/L	0.0010	103	85	115			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27897
Sample ID: MB-27897	7	Method Blank				Run: ICPMS4-C_101025A				10/25/10 15:03
Beryllium		ND	mg/L	3E-05						
Cadmium		0.0002	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Manganese		0.0007	mg/L	2E-05						
Molybdenum		0.002	mg/L	0.00010						
Nickel		0.0002	mg/L	4E-05						
Vanadium		0.01	mg/L	4E-05						
Sample ID: LCS3-27897	7	Laboratory Control Sample				Run: ICPMS4-C_101025A				10/25/10 15:12
Beryllium		0.243	mg/L	0.010	97	85	115			
Cadmium		0.274	mg/L	0.010	109	85	115			
Cobalt		0.516	mg/L	0.010	103	85	115			
Manganese		2.49	mg/L	0.010	99	85	115			
Molybdenum		0.575	mg/L	0.10	115	85	115			
Nickel		0.531	mg/L	0.050	106	85	115			
Vanadium		0.530	mg/L	0.10	103	85	115			
Sample ID: C10100375-004CMS3	7	Sample Matrix Spike				Run: ICPMS4-C_101025A				10/25/10 18:31
Beryllium		0.232	mg/L	0.010	93	70	130			
Cadmium		0.282	mg/L	0.010	113	70	130			
Cobalt		0.498	mg/L	0.010	100	70	130			
Manganese		2.43	mg/L	0.010	97	70	130			
Molybdenum		0.583	mg/L	0.10	117	70	130			
Nickel		0.524	mg/L	0.050	105	70	130			
Vanadium		0.510	mg/L	0.10	100	70	130			
Sample ID: C10100375-004CMSD	7	Sample Matrix Spike Duplicate				Run: ICPMS4-C_101025A				10/25/10 18:37
Beryllium		0.220	mg/L	0.010	88	70	130	5.1	20	
Cadmium		0.266	mg/L	0.010	107	70	130	5.5	20	
Cobalt		0.465	mg/L	0.010	93	70	130	6.9	20	
Manganese		2.27	mg/L	0.010	91	70	130	6.8	20	
Molybdenum		0.553	mg/L	0.10	111	70	130	5.3	20	
Nickel		0.499	mg/L	0.050	100	70	130	5.0	20	
Vanadium		0.489	mg/L	0.10	95	70	130	4.2	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R138885
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_101019A				10/20/10 01:07
Chloride		9.58	mg/L	1.0	96	90	110			
Sulfate		37.6	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_101019A				10/20/10 01:23
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10100372-002AMS	2	Sample Matrix Spike				Run: IC2-C_101019A				10/20/10 15:04
Chloride		256	mg/L	4.0	101	80	120			
Sulfate		4940	mg/L	16		80	120			A
Sample ID: C10100372-002AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_101019A				10/20/10 15:20
Chloride		259	mg/L	4.0	103	80	120	1.1	20	
Sulfate		4960	mg/L	16		80	120	0.4	20	A
Method: E300.0										Batch: R139016
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101025A				10/25/10 17:29
Sulfate		38.0	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_101025A				10/25/10 17:45
Sulfate		ND	mg/L	0.2						
Sample ID: C10091252-001AMS		Sample Matrix Spike				Run: IC2-C_101025A				10/25/10 23:30
Sulfate		682	mg/L	8.0	100	80	120			
Sample ID: C10091252-001AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101025A				10/25/10 23:46
Sulfate		687	mg/L	8.0	102	80	120	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R138975
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101025A				10/25/10 12:27
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101025A				10/25/10 12:29
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Sample ID: C10100375-004DMS		Sample Matrix Spike				Run: TECHNICON_101025A				10/25/10 16:02
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	100	90	110			
Sample ID: C10100375-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101025A				10/25/10 16:04
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	2.0	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138639
Sample ID: 101510_LCS_4	9	Laboratory Control Sample				Run: SATURNCA_101015C				10/15/10 14:17
Bromodichloromethane		10.8	ug/L	1.0	108	70	130			
Bromoform		10.6	ug/L	1.0	106	70	130			
Chlorodibromomethane		10.6	ug/L	1.0	106	70	130			
Chloroform		11.2	ug/L	1.0	112	70	130			
Trihalomethanes, Total		43.2	ug/L	1.0	108	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	107	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: 101510_MBLK_6	9	Method Blank				Run: SATURNCA_101015C				10/15/10 15:29
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	105	80	120			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C10100375-001HMS	9	Sample Matrix Spike				Run: SATURNCA_101015C				10/16/10 07:59
Bromodichloromethane		106	ug/L	10	106	70	130			
Bromoform		104	ug/L	10	104	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		152	ug/L	10	112	70	130			
Trihalomethanes, Total		461	ug/L	10	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	110	80	120			
Surr: Dibromofluoromethane				1.0	111	80	120			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: C10100375-001HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_101015C				10/16/10 08:35
Bromodichloromethane		102	ug/L	10	102	70	130	4.6	20	
Bromoform		106	ug/L	10	106	70	130	1.9	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	1.2	20	
Chloroform		140	ug/L	10	100	70	130	8.2	20	
Trihalomethanes, Total		448	ug/L	10	102	70	130	3.0	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	103	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	102	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0365
Sample ID: MB-GA-0365	3	Method Blank				Run: G542M_101018A				10/19/10 02:38
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.8	pCi/L							
Gross Alpha minus Rn & U MDC		1	pCi/L							
Sample ID: LCS-GA-0365		Laboratory Control Sample				Run: G542M_101018A				10/19/10 02:38
Gross Alpha minus Rn & U		32.2	pCi/L		122	70	130			
Sample ID: C10100381-009DMS		Sample Matrix Spike				Run: G542M_101018A				10/19/10 09:45
Gross Alpha minus Rn & U		60.2	pCi/L		110	70	130			
Sample ID: C10100381-009DMSD		Sample Matrix Spike Duplicate				Run: G542M_101018A				10/19/10 09:45
Gross Alpha minus Rn & U		61.9	pCi/L		114	70	130	2.8	27.4	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4921
Sample ID: C10100372-001GMS		Sample Matrix Spike				Run: TENNELEC-3_101020F				11/03/10 00:48
Radium 226		23	pCi/L		72	70	130			
Sample ID: C10100372-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101020F				11/03/10 00:48
Radium 226		23	pCi/L		75	70	130	2.0	19.8	
Sample ID: MB-RA226-4921	3	Method Blank				Run: TENNELEC-3_101020F				11/03/10 02:57
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4921		Laboratory Control Sample				Run: TENNELEC-3_101020F				11/03/10 02:57
Radium 226		8.0	pCi/L		101	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1271
Sample ID: LCS-RA-TH-ISO-1271		Laboratory Control Sample				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		4.8	pCi/L		88	70	130			
Sample ID: C10100381-002DMS		Sample Matrix Spike				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		8.6	pCi/L		66	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.										
Sample ID: C10100381-002DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_101019B				10/21/10 09:30
Thorium 230		12	pCi/L		93	70	130	33	41.5	
Sample ID: MB-RA-TH-ISO-1271	3	Method Blank				Run: EGG-ORTEC_101019B				10/22/10 08:37
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E907.0										Batch: RA-TH-ISO-1272
Sample ID: MB-RA-TH-ISO-1272	3	Method Blank				Run: EGG-ORTEC_101019C				10/22/10 12:45
Thorium 230		-0.02	pCi/L							U
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: T_PB-210-0032
Sample ID: MB-PB-210-0032	3	Method Blank				Run: SUB-T37502				10/29/10 09:34
Lead 210		0.02	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0032		Laboratory Control Sample				Run: SUB-T37502				10/29/10 13:57
Lead 210		42	pCi/L		76	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37502				10/29/10 18:20
Lead 210		56	pCi/L		103	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37502				10/29/10 20:32
Lead 210		58	pCi/L		106	70	130	0.0	15.7	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/19/10
Work Order: C10100372

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3455
Sample ID: LCS-228-RA226-4921		Laboratory Control Sample				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		8.1	pCi/L		108	70	130			
Sample ID: MB-RA226-4921	3	Method Blank				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		0.2	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10100372-002GMS		Sample Matrix Spike				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		35	pCi/L		106	70	130			
Sample ID: C10100372-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101020B			10/28/10 10:10	
Radium 228		35	pCi/L		105	70	130	0.7	24.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

November 23, 2010

United Nuclear Corporation
21 Miles NE of Gallup
Gallup, NM 87305

Workorder No.: C10100652 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corporation on 10/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100652-001	517	10/11/10 12:45	10/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Arsenic Speciation Selenium-IV, Total CVAA Selenium Prep E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C10100652-002	708	10/11/10 13:51	10/15/10	Aqueous	Same As Above
C10100652-003	711	10/11/10 14:38	10/15/10	Aqueous	Same As Above
C10100652-004	711 Duplicate	10/11/10 15:15	10/15/10	Aqueous	Same As Above
C10100652-005	EPA-13	10/11/10 15:45	10/15/10	Aqueous	Same As Above
C10100652-006	719	10/12/10 09:13	10/15/10	Aqueous	Same As Above
C10100652-007	420	10/12/10 10:13	10/15/10	Aqueous	Same As Above
C10100652-008	717	10/12/10 10:55	10/15/10	Aqueous	Same As Above
C10100652-009	NBL-2	10/12/10 12:20	10/15/10	Aqueous	Same As Above
C10100652-010	NBL-1	10/12/10 13:40	10/15/10	Aqueous	Same As Above
C10100652-011	PB-3	10/12/10 14:50	10/15/10	Aqueous	Same As Above
C10100652-012	PB-2	10/12/10 14:55	10/15/10	Aqueous	Same As Above
C10100652-013	RW-A	10/12/10 15:27	10/15/10	Aqueous	Same As Above
C10100652-014	RW-11	10/12/10 16:00	10/15/10	Aqueous	Same As Above
C10100652-015	504-B	10/12/10 16:40	10/15/10	Aqueous	Same As Above
C10100652-016	Field Blank	10/12/10 19:27	10/15/10	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.24 08:58:32 -07:00

CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10100652

Report Date: 11/23/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138622
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101015B				10/15/10 16:15
Alkalinity, Total as CaCO3		ND	mg/L	5.0						
Bicarbonate as HCO3		ND	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101015B				10/15/10 16:31
Alkalinity, Total as CaCO3		217	mg/L	5.0	108	90	110			
Sample ID: C10100652-016ADUP	2	Sample Duplicate				Run: MANTECH_101015B				10/16/10 01:59
Alkalinity, Total as CaCO3		8.60	mg/L	5.0				7.6	10	
Bicarbonate as HCO3		10.5	mg/L	5.0				7.6	10	
Sample ID: C10100652-016AMS		Sample Matrix Spike				Run: MANTECH_101015B				10/16/10 02:07
Alkalinity, Total as CaCO3		147	mg/L	5.0	111	80	120			
Method: A2320 B										Batch: R138675
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101018A				10/18/10 16:44
Alkalinity, Total as CaCO3		ND	mg/L	5.0						
Bicarbonate as HCO3		ND	mg/L	5.0						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101018A				10/18/10 16:59
Alkalinity, Total as CaCO3		221	mg/L	5.0	110	90	110			
Sample ID: C10100652-007ADUP	2	Sample Duplicate				Run: MANTECH_101018A				10/18/10 17:47
Alkalinity, Total as CaCO3		447	mg/L	5.0				0.2	10	
Bicarbonate as HCO3		545	mg/L	5.0				0.2	10	
Sample ID: C10100674-001AMS		Sample Matrix Spike				Run: MANTECH_101018A				10/18/10 19:49
Alkalinity, Total as CaCO3		468	mg/L	5.0	111	80	120			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101015_1_SLDS-TDS-W	
Sample ID: MBLK1_101015		Method Blank				Run: BAL-1_101015B			10/15/10 15:49	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101015		Laboratory Control Sample				Run: BAL-1_101015B			10/15/10 15:49	
Solids, Total Dissolved TDS @ 180 C		1030	mg/L	10	103	90	110			
Sample ID: C10100652-005AMS		Sample Matrix Spike				Run: BAL-1_101015B			10/15/10 16:01	
Solids, Total Dissolved TDS @ 180 C		9870	mg/L	17	100	90	110			
Sample ID: C10100652-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101015B			10/15/10 16:02	
Solids, Total Dissolved TDS @ 180 C		9810	mg/L	17	98	90	110	0.6	10	
Method: A2540 C									Batch: 101018_1_SLDS-TDS-W	
Sample ID: MBLK1_101018		Method Blank				Run: BAL-1_101018A			10/18/10 16:00	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101018		Laboratory Control Sample				Run: BAL-1_101018A			10/18/10 16:00	
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C10100652-011AMS		Sample Matrix Spike				Run: BAL-1_101018A			10/18/10 16:05	
Solids, Total Dissolved TDS @ 180 C		5600	mg/L	10	101	90	110			
Sample ID: C10100652-011AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101018A			10/18/10 16:05	
Solids, Total Dissolved TDS @ 180 C		5600	mg/L	10	101	90	110	0.0	10	

Qualifiers:
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ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: 27980
Sample ID: MB-27980		Method Blank				Run: CVAA-C202_101027B				10/27/10 12:48
Selenium-IV		ND	mg/L	0.0002						
Sample ID: LCS-27980		Laboratory Control Sample				Run: CVAA-C202_101027B				10/27/10 12:50
Selenium-IV		0.0471	mg/L	0.0010	94	90	110			
Sample ID: C10100652-001CMS		Sample Matrix Spike				Run: CVAA-C202_101027B				10/27/10 12:55
Selenium-IV		0.0462	mg/L	0.0010	92	85	115			
Sample ID: C10100652-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101027B				10/27/10 12:57
Selenium-IV		0.0485	mg/L	0.0010	96	85	115	4.9	10	
Sample ID: C10100652-010CMS		Sample Matrix Spike				Run: CVAA-C202_101027B				10/27/10 13:39
Selenium-IV		0.0463	mg/L	0.0010	93	85	115			
Sample ID: C10100652-010CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_101027B				10/27/10 13:41
Selenium-IV		0.0444	mg/L	0.0010	89	85	115	4.3	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_101018A		
Sample ID: ICV1_101018_1		Initial Calibration Verification Standard							10/18/10 09:12	
pH		6.86	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 101018_1_PH-W_555A-2		
Sample ID: C10100652-010ADUP		Sample Duplicate				Run: ORION555A-2_101018A			10/18/10 09:59	
pH		3.14	s.u.	0.010				0.0	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R139098
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101027A				10/27/10 10:02
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101027A				10/27/10 10:17
Nitrogen, Ammonia as N		19.8	mg/L	0.50	99	80	120			
Sample ID: C10100697-006EMS		Sample Matrix Spike				Run: TECHNICON_101027A				10/27/10 13:44
Nitrogen, Ammonia as N		2.11	mg/L	0.050	102	80	120			
Sample ID: C10100697-006EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101027A				10/27/10 13:46
Nitrogen, Ammonia as N		2.20	mg/L	0.050	107	80	120	4.2	20	
Method: A4500-NH3 G										Batch: R139245
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101029A				10/29/10 13:30
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101029A				10/29/10 13:32
Nitrogen, Ammonia as N		19.1	mg/L	0.50	95	80	120			
Sample ID: C10100651-006DMS		Sample Matrix Spike				Run: TECHNICON_101029A				10/29/10 14:10
Nitrogen, Ammonia as N		2.19	mg/L	0.050	94	80	120			
Sample ID: C10100651-006DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101029A				10/29/10 14:12
Nitrogen, Ammonia as N		2.24	mg/L	0.050	96	80	120	2.3	20	
Sample ID: C10100652-012DMS		Sample Matrix Spike				Run: TECHNICON_101029A				10/29/10 15:16
Nitrogen, Ammonia as N		3.86	mg/L	0.050	143	80	120			S
Sample ID: C10100652-012DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101029A				10/29/10 15:18
Nitrogen, Ammonia as N		3.81	mg/L	0.050	141	80	120	1.3	20	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R66998
Sample ID: ICB_13r		Method Blank				Run: SUB-H66998				11/08/10 13:41
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101108-LFB		Laboratory Control Sample				Run: SUB-H66998				11/08/10 13:48
Arsenic-III		53.3	ug/L	5.0	107	85	115			
Sample ID: C10100652-003E		Sample Matrix Spike				Run: SUB-H66998				11/08/10 14:17
Arsenic-III		56.3	ug/L	10	103	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike Duplicate				Run: SUB-H66998				11/08/10 14:23
Arsenic-III		54.5	ug/L	10	99	55	146	3.4	20	
Method: E1632AM										Batch: H_R67318
Sample ID: ICB_13r		Method Blank				Run: SUB-H67318				11/17/10 16:03
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS101117-LFB		Laboratory Fortified Blank				Run: SUB-H67318				11/17/10 14:40
Arsenic-III		4.76	ug/L	1.0	95	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike				Run: SUB-H67318				11/17/10 16:28
Arsenic-III		7.36	ug/L	2.0	87	55	146			
Sample ID: C10100652-003E		Sample Matrix Spike Duplicate				Run: SUB-H67318				11/17/10 16:35
Arsenic-III		7.32	ug/L	2.0	86	55	146	0.5	20	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R139124
Sample ID: MB-101027A	4	Method Blank				Run: ICP2-C_101027A				10/27/10 14:27
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101027A	4	Laboratory Fortified Blank				Run: ICP2-C_101027A				10/27/10 14:31
Calcium		48.7	mg/L	0.50	97	85	115			
Magnesium		48.5	mg/L	0.50	97	85	115			
Potassium		44.8	mg/L	0.50	90	85	115			
Sodium		50.0	mg/L	0.50	100	85	115			
Sample ID: C10100652-006BMS2	4	Sample Matrix Spike				Run: ICP2-C_101027A				10/27/10 20:08
Calcium		719	mg/L	1.1	87	70	130			
Magnesium		864	mg/L	1.0	98	70	130			
Potassium		240	mg/L	1.0	89	70	130			
Sodium		408	mg/L	1.4	102	70	130			
Sample ID: C10100652-006BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101027A				10/27/10 20:12
Calcium		744	mg/L	1.1	97	70	130	3.5	20	
Magnesium		873	mg/L	1.0	101	70	130	1.0	20	
Potassium		241	mg/L	1.0	89	70	130	0.8	20	
Sodium		410	mg/L	1.4	103	70	130	0.5	20	
Sample ID: C10100652-016BMS2	4	Sample Matrix Spike				Run: ICP2-C_101027A				10/27/10 21:13
Calcium		98.1	mg/L	1.0	96	70	130			
Magnesium		98.4	mg/L	1.0	96	70	130			
Potassium		90.5	mg/L	1.0	89	70	130			
Sodium		108	mg/L	1.0	100	70	130			
Sample ID: C10100652-016BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101027A				10/27/10 21:17
Calcium		99.8	mg/L	1.0	97	70	130	1.8	20	
Magnesium		99.0	mg/L	1.0	97	70	130	0.6	20	
Potassium		91.0	mg/L	1.0	89	70	130	0.6	20	
Sodium		108	mg/L	1.0	101	70	130	0.6	20	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 27970
Sample ID: MB-27970	3	Method Blank				Run: ICP2-C_101029A				10/30/10 00:14
Aluminum		ND	mg/L	0.01						
Beryllium		ND	mg/L	0.0001						
Manganese		ND	mg/L	0.0008						
Sample ID: LCS3-27970	3	Laboratory Control Sample				Run: ICP2-C_101029A				10/30/10 00:18
Aluminum		2.43	mg/L	0.10	97	85	115			
Beryllium		0.249	mg/L	0.010	99	85	115			
Manganese		2.47	mg/L	0.010	99	85	115			
Sample ID: C10100652-016CMS3	3	Sample Matrix Spike				Run: ICP2-C_101029A				10/30/10 01:43
Aluminum		2.58	mg/L	0.10	102	70	130			
Beryllium		0.263	mg/L	0.010	105	70	130			
Manganese		2.61	mg/L	0.010	104	70	130			
Sample ID: C10100652-016CMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_101029A				10/30/10 01:47
Aluminum		2.53	mg/L	0.10	100	70	130	2.2	20	
Beryllium		0.257	mg/L	0.010	103	70	130	2.3	20	
Manganese		2.58	mg/L	0.010	103	70	130	1.4	20	
Method: E200.7										Batch: R139606
Sample ID: MB-101108A	4	Method Blank				Run: ICP2-C_101108A				11/08/10 11:53
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101108A	4	Laboratory Fortified Blank				Run: ICP2-C_101108A				11/08/10 11:57
Calcium		48.6	mg/L	0.50	97	85	115			
Magnesium		48.4	mg/L	0.50	97	85	115			
Potassium		44.1	mg/L	0.50	88	85	115			
Sodium		49.1	mg/L	0.50	98	85	115			
Sample ID: C10100569-003BMS2	4	Sample Matrix Spike				Run: ICP2-C_101108A				11/08/10 12:57
Calcium		101	mg/L	1.0	94	70	130			
Magnesium		98.6	mg/L	1.0	95	70	130			
Potassium		94.0	mg/L	1.0	91	70	130			
Sodium		177	mg/L	1.0	100	70	130			
Sample ID: C10100569-003BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_101108A				11/08/10 13:01
Calcium		105	mg/L	1.0	98	70	130	3.3	20	
Magnesium		101	mg/L	1.0	98	70	130	2.7	20	
Potassium		95.0	mg/L	1.0	92	70	130	1.1	20	
Sodium		179	mg/L	1.0	102	70	130	1.0	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 27970
Sample ID: MB-27970	9	Method Blank				Run: ICPMS2-C_101028A				10/29/10 03:25
Aluminum		ND	mg/L	0.01						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		ND	mg/L	5E-05						
Manganese		0.0002	mg/L	9E-05						
Molybdenum		0.0002	mg/L	0.0001						
Nickel		ND	mg/L	8E-05						
Uranium		6E-05	mg/L	4E-05						
Vanadium		0.003	mg/L	0.0005						
Sample ID: LCS3-27970	9	Laboratory Control Sample				Run: ICPMS2-C_101028A				10/29/10 03:32
Aluminum		2.57	mg/L	0.10	103	85	115			
Cadmium		0.260	mg/L	0.010	104	85	115			
Cobalt		0.508	mg/L	0.010	102	85	115			
Lead		0.541	mg/L	0.050	108	85	115			
Manganese		2.50	mg/L	0.010	100	85	115			
Molybdenum		0.544	mg/L	0.10	109	85	115			
Nickel		0.493	mg/L	0.050	99	85	115			
Uranium		0.573	mg/L	0.00030	115	85	115			
Vanadium		0.521	mg/L	0.10	104	85	115			
Sample ID: C10100652-016CMS3	9	Sample Matrix Spike				Run: ICPMS2-C_101028A				10/29/10 06:27
Aluminum		2.53	mg/L	0.10	100	70	130			
Cadmium		0.259	mg/L	0.010	103	70	130			
Cobalt		0.489	mg/L	0.010	98	70	130			
Lead		0.555	mg/L	0.050	110	70	130			
Manganese		2.43	mg/L	0.010	97	70	130			
Molybdenum		0.570	mg/L	0.10	114	70	130			
Nickel		0.496	mg/L	0.050	99	70	130			
Uranium		0.580	mg/L	0.00030	116	70	130			
Vanadium		0.511	mg/L	0.10	102	70	130			
Sample ID: C10100652-016CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_101028A				10/29/10 07:01
Aluminum		2.51	mg/L	0.10	99	70	130	0.7	20	
Cadmium		0.257	mg/L	0.010	103	70	130	0.5	20	
Cobalt		0.488	mg/L	0.010	98	70	130	0.2	20	
Lead		0.546	mg/L	0.050	108	70	130	1.6	20	
Manganese		2.40	mg/L	0.010	96	70	130	1.3	20	
Molybdenum		0.552	mg/L	0.10	110	70	130	3.2	20	
Nickel		0.489	mg/L	0.050	98	70	130	1.4	20	
Uranium		0.583	mg/L	0.00030	117	70	130	0.4	20	
Vanadium		0.501	mg/L	0.10	100	70	130	2.0	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R139122	
Sample ID: LCS	2	Laboratory Control Sample				Run: IC1-C_101026A			10/26/10 18:14	
Chloride		9.24	mg/L	1.0	92	90	110			
Sulfate		37.6	mg/L	1.0	94	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC1-C_101026A			10/26/10 18:32	
Chloride		ND	mg/L	0.01						
Sulfate		ND	mg/L	0.06						
Sample ID: C10100652-003AMS	2	Sample Matrix Spike				Run: IC1-C_101026A			10/27/10 13:23	
Chloride		224	mg/L	4.0	108	80	120			
Sulfate		4270	mg/L	16		80	120			A
Sample ID: C10100652-003AMSD	2	Sample Matrix Spike Duplicate				Run: IC1-C_101026A			10/27/10 13:41	
Chloride		231	mg/L	4.0	112	80	120	3.3	20	
Sulfate		4250	mg/L	16		80	120	0.2	20	A
Method: E300.0									Batch: R139202	
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_101027A			10/27/10 23:13	
Chloride		9.27	mg/L	1.0	93	90	110			
Sulfate		37.2	mg/L	1.0	93	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_101027A			10/27/10 23:31	
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Sample ID: C10100652-013AMS	2	Sample Matrix Spike				Run: IC2-C_101027A			10/28/10 05:58	
Chloride		225	mg/L	4.0	97	80	120			
Sulfate		3290	mg/L	16	83	80	120			
Sample ID: C10100652-013AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_101027A			10/28/10 06:17	
Chloride		230	mg/L	4.0	99	80	120	2.0	20	
Sulfate		3310	mg/L	16	86	80	120	0.9	20	
Method: E300.0									Batch: R139305	
Sample ID: MBLK		Method Blank				Run: IC2-C_101029A			10/29/10 18:05	
Sulfate		ND	mg/L	0.2						
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101029A			10/29/10 20:42	
Sulfate		37.8	mg/L	1.0	94	90	110			
Sample ID: C10100002-004AMS		Sample Matrix Spike				Run: IC2-C_101029A			10/29/10 23:19	
Sulfate		447	mg/L	4.0	97	80	120			
Sample ID: C10100002-004AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101029A			10/29/10 23:36	
Sulfate		456	mg/L	4.0	102	80	120	2.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R139475
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_101104A				11/04/10 14:17
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_101104A				11/04/10 14:19
Nitrogen, Nitrate+Nitrite as N		2.34	mg/L	0.10	94	90	110			
Sample ID: C10100652-007DMS		Sample Matrix Spike				Run: TECHNICON_101104A				11/04/10 15:12
Nitrogen, Nitrate+Nitrite as N		2.02	mg/L	0.10	101	90	110			
Sample ID: C10100652-007DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101104A				11/04/10 15:14
Nitrogen, Nitrate+Nitrite as N		2.02	mg/L	0.10	101	90	110	0.0	10	
Sample ID: C10100652-016DMS		Sample Matrix Spike				Run: TECHNICON_101104A				11/04/10 15:44
Nitrogen, Nitrate+Nitrite as N		1.94	mg/L	0.10	95	90	110			
Sample ID: C10100652-016DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_101104A				11/04/10 15:47
Nitrogen, Nitrate+Nitrite as N		2.00	mg/L	0.10	98	90	110	3.0	10	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R138757
Sample ID: 19-Oct-10_LCS_4	9	Laboratory Control Sample				Run: 5975VOC1_101019A			10/19/10 13:27	
Bromodichloromethane		8.96	ug/L	1.0	90	70	130			
Bromoform		9.36	ug/L	1.0	94	70	130			
Chlorodibromomethane		8.92	ug/L	1.0	89	70	130			
Chloroform		8.56	ug/L	1.0	86	70	130			
Trihalomethanes, Total		35.8	ug/L	1.0	90	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	85	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 19-Oct-10_MBLK_6	9	Method Blank				Run: 5975VOC1_101019A			10/19/10 15:28	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	130	80	120			S
Surr: Dibromofluoromethane				1.0	87	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	94	80	120			
Sample ID: C10100586-001AMS	9	Sample Matrix Spike				Run: 5975VOC1_101019A			10/20/10 02:02	
Bromodichloromethane		194	ug/L	20	97	70	130			
Bromoform		198	ug/L	20	99	70	130			
Chlorodibromomethane		188	ug/L	20	94	70	130			
Chloroform		196	ug/L	20	98	70	130			
Trihalomethanes, Total		775	ug/L	20	97	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	100	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: C10100586-001AMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_101019A			10/20/10 02:38	
Bromodichloromethane		202	ug/L	20	101	70	130	4.0	20	
Bromoform		209	ug/L	20	104	70	130	5.5	20	
Chlorodibromomethane		199	ug/L	20	100	70	130	5.8	20	
Chloroform		206	ug/L	20	103	70	130	5.2	20	
Trihalomethanes, Total		816	ug/L	20	102	70	130	5.1	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	116	80	120			
Surr: Dibromofluoromethane				1.0	100	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	104	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R138829	
Sample ID: 20-Oct-10_LCS_5	9	Laboratory Control Sample				Run: 5975VOC1_101020D			10/20/10 14:57	
Bromodichloromethane		8.40	ug/L	1.0	84	70	130			
Bromoform		8.80	ug/L	1.0	88	70	130			
Chlorodibromomethane		8.44	ug/L	1.0	84	70	130			
Chloroform		7.76	ug/L	1.0	78	70	130			
Trihalomethanes, Total		33.4	ug/L	1.0	84	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	83	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 20-Oct-10_MBLK_7	9	Method Blank				Run: 5975VOC1_101020D			10/20/10 16:08	
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	127	80	120			S
Surr: Dibromofluoromethane				1.0	84	80	120			
Surr: p-Bromofluorobenzene				1.0	110	80	120			
Surr: Toluene-d8				1.0	96	80	120			
Sample ID: C10100586-003AMS	9	Sample Matrix Spike				Run: 5975VOC1_101020D			10/20/10 23:15	
Bromodichloromethane		1020	ug/L	100	102	70	130			
Bromoform		1040	ug/L	100	104	70	130			
Chlorodibromomethane		996	ug/L	100	100	70	130			
Chloroform		1000	ug/L	100	100	70	130			
Trihalomethanes, Total		4060	ug/L	100	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	93	80	120			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: C10100586-003AMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_101020D			10/20/10 23:50	
Bromodichloromethane		1050	ug/L	100	105	70	130	3.1	20	
Bromoform		1090	ug/L	100	109	70	130	4.1	20	
Chlorodibromomethane		1040	ug/L	100	104	70	130	4.3	20	
Chloroform		992	ug/L	100	99	70	130	0.8	20	
Trihalomethanes, Total		4170	ug/L	100	104	70	130	2.7	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	114	80	120			
Surr: Dibromofluoromethane				1.0	94	80	120			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	103	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0367
Sample ID: MB-GA-0367	3	Method Blank				Run: G5000W_101025A				10/28/10 17:16
Gross Alpha minus Rn & U		-0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0367		Laboratory Control Sample				Run: G5000W_101025A				10/28/10 17:16
Gross Alpha minus Rn & U		26.7	pCi/L		102	70	130			
Sample ID: C10100652-004GMS		Sample Matrix Spike				Run: G5000W_101025A				10/28/10 17:17
Gross Alpha minus Rn & U		28.8	pCi/L		89	70	130			
Sample ID: C10100652-004GMSD		Sample Matrix Spike Duplicate				Run: G5000W_101025A				10/28/10 17:17
Gross Alpha minus Rn & U		28.6	pCi/L		88	70	130	0.6	23	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4939
Sample ID: C10100652-010GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_101024B				11/08/10 12:31
Radium 226		25	pCi/L		93	70	130			
Sample ID: C10100652-010GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_101024B				11/08/10 12:31
Radium 226		24	pCi/L		88	70	130	4.1	22.1	
Sample ID: MB-RA226-4939	3	Method Blank				Run: BERTHOLD 770-2_101024B				11/08/10 14:14
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4939		Laboratory Control Sample				Run: BERTHOLD 770-2_101024B				11/08/10 14:14
Radium 226		7.2	pCi/L		93	70	130			
Method: E903.0										Batch: RA226-4938
Sample ID: C10100652-007GMS		Sample Matrix Spike				Run: TENNELEC-3_101024C				11/08/10 12:27
Radium 226		22	pCi/L		104	70	130			
Sample ID: C10100652-007GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101024C				11/08/10 12:27
Radium 226		25	pCi/L		121	70	130	12	22	
Sample ID: MB-RA226-4938	3	Method Blank				Run: TENNELEC-3_101024C				11/08/10 12:27
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4938		Laboratory Control Sample				Run: TENNELEC-3_101024C				11/08/10 12:27
Radium 226		11	pCi/L		140	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1274
Sample ID: LCS-RA-TH-ISO-1274		Laboratory Control Sample				Run: EGG-ORTEC_101021A				10/25/10 17:01
Thorium 230		5.30	pCi/L		100	70	130			
Sample ID: C10100652-007GMS		Sample Matrix Spike				Run: EGG-ORTEC_101021A				10/25/10 17:01
Thorium 230		13.2	pCi/L		95	70	130			
Sample ID: C10100652-007GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_101021A				10/25/10 17:01
Thorium 230		11.3	pCi/L		85	70	130	16	40.2	
Sample ID: MB-RA-TH-ISO-1274	3	Method Blank				Run: EGG-ORTEC_101021A				10/26/10 08:45
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E907.0										Batch: RA-TH-ISO-1279
Sample ID: MB-RA-TH-ISO-1279	3	Method Blank				Run: EGG-ORTEC_101029C				11/04/10 08:31
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: T_PB-210-0034	
Sample ID: MB-PB-210-0034	3	Method Blank				Run: SUB-T37647			11/05/10 07:18	
Lead 210		0.5	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0034		Laboratory Control Sample				Run: SUB-T37647			11/05/10 11:41	
Lead 210		54	pCi/L		97	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37647			11/05/10 16:04	
Lead 210		55	pCi/L		99	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37647			11/05/10 18:15	
Lead 210		57	pCi/L		103	70	130	3.8	15.6	
Method: E909.0M									Batch: T_PB-210-0033	
Sample ID: MB-PB-210-0033	3	Method Blank				Run: SUB-T37649			11/08/10 12:54	
Lead 210		0.9	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0033		Laboratory Control Sample				Run: SUB-T37649			11/08/10 16:59	
Lead 210		61	pCi/L		110	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37649			11/08/10 21:04	
Lead 210		70	pCi/L		126	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37649			11/08/10 23:06	
Lead 210		61	pCi/L		110	70	130	14	15.4	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/23/10
Work Order: C10100652

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3461
Sample ID: LCS-228-RA226-4938		Laboratory Control Sample				Run: TENNELEC-3_101024A			11/02/10 10:52	
Radium 228		7.8	pCi/L		103	70	130			
Sample ID: MB-RA226-4938	3	Method Blank				Run: TENNELEC-3_101024A			11/02/10 10:52	
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10100763-007EMS		Sample Matrix Spike				Run: TENNELEC-3_101024A			11/02/10 10:52	
Radium 228		20	pCi/L		122	70	130			
Sample ID: C10100763-007EMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101024A			11/02/10 10:52	
Radium 228		19	pCi/L		116	70	130	4.4	32.5	
Method: RA-05										Batch: RA228-3462
Sample ID: LCS-228-RA226-4939		Laboratory Control Sample				Run: TENNELEC-3_101024B			11/02/10 13:13	
Radium 228		7.7	pCi/L		104	70	130			
Sample ID: MB-RA226-4939	3	Method Blank				Run: TENNELEC-3_101024B			11/02/10 13:13	
Radium 228		0.1	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Sample ID: C10100652-015GMS		Sample Matrix Spike				Run: TENNELEC-3_101024B			11/02/10 13:13	
Radium 228		28	pCi/L		87	70	130			
Sample ID: C10100652-015GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_101024B			11/02/10 13:13	
Radium 228		29	pCi/L		91	70	130	2.2	26	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ANALYTICAL SUMMARY REPORT

November 04, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10100659
Project Name: Zone 3

Energy Laboratories, Inc. received the following 6 samples for United Nuclear Corporation on 10/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10100659-001	PB-4	10/12/10 15:25	10/15/10	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10100659-002	NW-3	10/13/10 11:33	10/15/10	Aqueous	Same As Above
C10100659-003	NW-5	10/13/10 11:44	10/15/10	Aqueous	Same As Above
C10100659-004	NW-2	10/13/10 11:56	10/15/10	Aqueous	Same As Above
C10100659-005	NW-4	10/13/10 12:10	10/15/10	Aqueous	Same As Above
C10100659-006	NW-1	10/13/10 12:25	10/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.11.04 16:31:58 -06:00

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/04/10
Work Order: C10100659

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R138675
Sample ID: MBLK	2	Method Blank				Run: MANTECH_101018A				10/18/10 16:44
Alkalinity, Total as CaCO3		ND	mg/L	1						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_101018A				10/18/10 16:59
Alkalinity, Total as CaCO3		221	mg/L	5.0	110	90	110			
Sample ID: C10100674-001AMS		Sample Matrix Spike				Run: MANTECH_101018A				10/18/10 19:49
Alkalinity, Total as CaCO3		468	mg/L	5.0	111	80	120			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/04/10
Work Order: C10100659

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101018_1_SLDS-TDS-W	
Sample ID: MBLK1_101018		Method Blank				Run: BAL-1_101018A			10/18/10 16:00	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_101018		Laboratory Control Sample				Run: BAL-1_101018A			10/18/10 16:00	
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C10100659-005AMS		Sample Matrix Spike				Run: BAL-1_101018A			10/18/10 16:08	
Solids, Total Dissolved TDS @ 180 C		6460	mg/L	11	100	90	110			
Sample ID: C10100659-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_101018A			10/18/10 16:09	
Solids, Total Dissolved TDS @ 180 C		6490	mg/L	11	101	90	110	0.5	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/04/10
Work Order: C10100659

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_101018B		
Sample ID: ICV1_101018_2		Initial Calibration Verification Standard							10/18/10 14:05	
pH		6.83	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 101018_2_PH-W_555A-2		
Sample ID: C10100659-001ADUP		Sample Duplicate				Run: ORION555A-2_101018B			10/18/10 14:57	
pH		2.93	s.u.	0.010				0.3	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 11/04/10
Work Order: C10100659

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R139095
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101026A				10/26/10 18:57
Chloride		9.49	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_101026A				10/26/10 19:16
Chloride		ND	mg/L	0.06						
Sample ID: C10100657-002AMS		Sample Matrix Spike				Run: IC2-C_101026A				10/26/10 21:13
Chloride		320	mg/L	2.0	100	80	120			
Sample ID: C10100657-002AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101026A				10/26/10 21:32
Chloride		318	mg/L	2.0	98	80	120	0.5	20	
Method: E300.0										Batch: R139202
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_101027A				10/27/10 23:13
Chloride		9.27	mg/L	1.0	93	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_101027A				10/27/10 23:31
Chloride		ND	mg/L	0.06						
Sample ID: C10100674-001AMS		Sample Matrix Spike				Run: IC2-C_101027A				10/28/10 22:38
Chloride		585	mg/L	4.0	103	80	120			
Sample ID: C10100674-001AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_101027A				10/28/10 22:55
Chloride		586	mg/L	4.0	103	80	120	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.