SEMI-ANNUAL GROUND WATER QUALITY ASSURANCE REPORT

SECOND HALF OF 2009
(JULY THRU DECEMBER)

SEMI – ANNUAL QUALITY ASSURANCE

CHURCH ROCK SITE

JULY AND OCTOBER OF 2009 SAMPLING EVENTS

FEBRUARY - 2010

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(1 of 2 & 2 of 2)

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 2009 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	4.02	7-6-09/0854	[illegible]
7-Buffer	7.05	7-6-09/0852	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
Third QUARTER 2009
SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1450	7-6-09/0855	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,210	2nd Cond. 5,520	Stable Cond. 5,690	Ending Cond. 6,390
	509-D			1st pH 6.65	2nd pH 6.64	Stable pH 6.62	Ending pH 6.24
		77.60'	77.60'	1st Temp. 18.8	2nd Temp. 18.0	Stable Temp. 17.1	Ending Temp. 16.2
7-6-09	Time	Bubbler Start	Bubbler End	Comments: Conductivity is in uS/cm Temperature is in °C pH is in std. units			
	0910	2.943'	2.802'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,780	2nd Cond. 4,250	Stable Cond. 4,450	Ending Cond. 4,650
	EPA-23			1st pH 6.91	2nd pH 6.89	Stable pH 6.78	Ending pH 6.39
		54.10'	54.30'	1st Temp. 17.9	2nd Temp. 17.5	Stable Temp. 17.0	Ending Temp. 16.7
7-6-09	Time	Bubbler Start	Bubbler End	Comments: See well 808 comment.			
	0950	0.103'	0.087'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,580	2nd Cond. 5,750	Stable Cond. 6,090	Ending Cond. 6,420
	803			1st pH 6.91	2nd pH 6.91	Stable pH 6.82	Ending pH 6.28
		61.35'	61.50'	1st Temp. 19.6	2nd Temp. 18.8	Stable Temp. 17.1	Ending Temp. 16.7
7-6-09	Time	Bubbler Start	Bubbler End	Comments: See well 808 comment.			
	1035	5,198'	11,600'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,770	2nd Cond. 5,860	Stable Cond. 6,080	Ending Cond. 6,340
	808			1st pH 6.75	2nd pH 6.70	Stable pH 6.59	Ending pH 6.31
		48.80'	48.85'	1st Temp. 19.7	2nd Temp. 19.2	Stable Temp. 18.6	Ending Temp. 17.4
7-6-09	Time	Bubbler Start	Bubbler End	Comments: In correct bubbler reading for well EPA-23, 803 and 808 due to a worn meter O-ring seal and is replaced in the field.			
	1110	7.821'	11.982'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,390	2nd Cond. 6,900	Stable Cond. 7,150	Ending Cond. 7,420
	802			1st pH 6.88	2nd pH 6.87	Stable pH 6.68	Ending pH 6.30
		47.15'	47.25'	1st Temp. 20.6	2nd Temp. 19.9	Stable Temp. 18.7	Ending Temp. 17.3
7-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1155	20.495'	20.454'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,590	2nd Cond. 5,690	Stable Cond. 5,990	Ending Cond. 6,040
	801			1st pH 6.65	2nd pH 6.61	Stable pH 6.49	Ending pH 6.27
		50.85'	51.90'	1st Temp. 20.8	2nd Temp. 19.9	Stable Temp. 18.4	Ending Temp. 18.1
7-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1230	10.850'	9.823'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.98	7-7-09/0815	[illegible]
7-Buffer	7.01	7-7-09/0810	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
Third QUARTER 2009
SAMPLING

Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm	1484	7-7-09/0818	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,370	2nd Cond. 6,560	Stable Cond. 7,000	Ending Cond. 7,400
Date	GW-2			1st pH 6.22	2nd pH 6.22	Stable pH 6.20	Ending pH 6.13
		55.40'	56.10'	1st Temp. 21.3	2nd Temp. 20.5	Stable Temp. 19.4	Ending Temp. 18.3
7-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1310	15.494'	14.759'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,340	2nd Cond. 5,460	Stable Cond. 6,040	Ending Cond. 6,580
Date	GW-1			1st pH 7.43	2nd pH 7.43	Stable pH 6.79	Ending pH 6.45
		61.05'	61.15'	1st Temp. 19.7	2nd Temp. 19.4	Stable Temp. 18.4	Ending Temp. 18.3
7-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1355	9.698'	9.657'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,320	2nd Cond. 6,540	Stable Cond. 6,690	Ending Cond. 6,900
Date	632			1st pH 6.58	2nd pH 6.53	Stable pH 6.43	Ending pH 6.25
		43.90'	45.95'	1st Temp. 19.8	2nd Temp. 18.8	Stable Temp. 17.9	Ending Temp. 17.5
7-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1440	13.104'	10.886'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,840	2nd Cond. 4,390	Stable Cond. 4,870	Ending Cond. 5,080
Date	624			1st pH 6.96	2nd pH 6.59	Stable pH 6.46	Ending pH 6.38
		50.50'	50.60'	1st Temp. 20.4	2nd Temp. 18.6	Stable Temp. 17.2	Ending Temp. 16.3
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	0850	12.062'	12.022'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,740	2nd Cond. 7,200	Stable Cond. 7,290	Ending Cond. 6,920
Date	SBL-1			1st pH 6.80	2nd pH 6.79	Stable pH 6.76	Ending pH 6.61
		50.35'	51.15'	1st Temp. 18.0	2nd Temp. 17.8	Stable Temp. 16.9	Ending Temp. 16.7
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	0935	9.470'	8.700'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,240	2nd Cond. 4,370	Stable Cond. 4,590	Ending Cond. 4,760
Date	EPA-28			1st pH 7.45	2nd pH 7.48	Stable pH 7.41	Ending pH 6.63
		62.55'	62.80'	1st Temp. 18.7	2nd Temp. 18.2	Stable Temp. 17.7	Ending Temp. 16.9
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1015	7.870'	7.619'				

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
				1st Cond. 4,760	2nd Cond. 4,840	Stable Cond. 4,840	Ending Cond. 4,730
	EPA-28			1st pH 6.63	2nd pH 6.62	Stable pH 6.63	Ending pH 6.65
	DUPLICATE	62.80'	62.85'	1st Temp. 16.9	2nd Temp. 16.3	Stable Temp. 16.1	Ending Temp. 17.1
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1055	7.619'	7.510'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,060	2nd Cond. 4,680	Stable Cond. 5,050	Ending Cond. 5,300
	GW-3			1st pH 6.91	2nd pH 6.90	Stable pH 6.86	Ending pH 6.48
		52.45'	53.15'	1st Temp. 21.1	2nd Temp. 20.1	Stable Temp. 19.1	Ending Temp. 18.9
7-7-09	Time	Bubbler Start	Bubbler End	Comments: Need to inspect pump check valve.			
	1145	3.216'	2.484'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,770	2nd Cond. 3,950	Stable Cond. 4,040	Ending Cond. 4,230
	EPA-25			1st pH 6.71	2nd pH 6.70	Stable pH 6.68	Ending pH 6.64
		53.20'	53.30'	1st Temp. 19.4	2nd Temp. 18.6	Stable Temp. 17.7	Ending Temp. 17.9
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1245	6.695'	7.589'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,670	2nd Cond. 4,360	Stable Cond. 4,500	Ending Cond. 4,670
	627			1st pH 7.38	2nd pH 7.30	Stable pH 7.11	Ending pH 6.76
		58.20'	58.30'	1st Temp. 21.1	2nd Temp. 20.8	Stable Temp. 19.5	Ending Temp. 19.3
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1340	4.371'	4.306'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 7,250	2nd Cond. 8,240	Stable Cond. 8,600	Ending Cond. 9,280
	613			1st pH 3.09	2nd pH 3.09	Stable pH 3.00	Ending pH 2.76
		78.90'	80.00'	1st Temp. 22.0	2nd Temp. 21.0	Stable Temp. 19.0	Ending Temp. 17.5
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1430	5.755'	4.830'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,320	2nd Cond. 4,760	Stable Cond. 4,870	Ending Cond. 5,130
	EPA-14			1st pH 4.24	2nd pH 4.25	Stable pH 4.26	Ending pH 4.07
		118.45'	118.60'	1st Temp. 19.7	2nd Temp. 19.2	Stable Temp. 18.5	Ending Temp. 18.0
7-7-09	Time	Bubbler Start	Bubbler End	Comments:			
	1505	3.957'	3.852'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.02	7-8-09/0800	[illegible]
7-Buffer	7.01	7-8-09/0810	[illegible]

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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
7-8-09	614	103.30'	104.05'	1st Cond. 3,690	2nd Cond. 6,080	Stable Cond. 6,110	Ending Cond. 7,130
				1st pH 6.72	2nd pH 6.81	Stable pH 6.91	Ending pH 6.41
				1st Temp. 27.9	2nd Temp. 17.8	Stable Temp. 17.5	Ending Temp. 16.6
	Time 0845	Bubbler Start 3.688'	Bubbler End 2.566'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-8-09	515-A	103.35'	108.20'	1st Cond. 6,660	2nd Cond. 6,850	Stable Cond. 6,990	Ending Cond. 7,070
				1st pH 6.66	2nd pH 6.48	Stable pH 6.40	Ending pH 5.61
				1st Temp. 18.9	2nd Temp. 17.7	Stable Temp. 17.1	Ending Temp. 20.1
	Time 0935	Bubbler Start 5.808'	Bubbler End 0.310'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-8-09	604	102.40'	103.10'	1st Cond. 5,150	2nd Cond. 5,920	Stable Cond. 6,000	Ending Cond. 6,240
				1st pH 6.13	2nd pH 5.90	Stable pH 5.72	Ending pH 5.01
				1st Temp. 19.2	2nd Temp. 17.9	Stable Temp. 17.6	Ending Temp. 15.3
	Time 1030	Bubbler Start 7.207'	Bubbler End 6.489'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-8-09	FIELD BLANK			1st Cond. 168	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.84	2nd pH	Stable pH	Ending pH
				1st Temp. 30.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1130	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:			

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	4.01	7-13-09/0854	[illegible]
7-Buffer	7.00	7-13-09/0852	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1494	7-13-09/0855	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-4			1st Cond. 3,720	2nd Cond. 3,750	Stable Cond. 3,940	Ending Cond. 4,190
				1st pH 6.62	2nd pH 6.68	Stable pH 6.76	Ending pH 6.47
7-13-09		206.20'	206.60'	1st Temp. 19.1	2nd Temp. 18.6	Stable Temp. 17.5	Ending Temp. 17.4
	Time	Bubbler Start	Bubbler End	Comments:			
	0925	16.889'	16.443'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-5			1st Cond. 3,280	2nd Cond. 3,940	Stable Cond. 4,160	Ending Cond. 4,200
				1st pH 6.64	2nd pH 6.53	Stable pH 6.44	Ending pH 5.84
7-13-09		124.50'	125.10'	1st Temp. 21.0	2nd Temp. 20.8	Stable Temp. 18.8	Ending Temp. 18.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1015	6.360'	5.788'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-7			1st Cond. 5,710	2nd Cond. 6,240	Stable Cond. 6,880	Ending Cond. 7,320
				1st pH 7.40	2nd pH 7.42	Stable pH 7.45	Ending pH 5.83
7-13-09		114.20'	115.80'	1st Temp. 19.5	2nd Temp. 19.4	Stable Temp. 19.1	Ending Temp. 16.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1055	12.908'	11.432'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-2			1st Cond. 2,380	2nd Cond. 2,550	Stable Cond. 2,700	Ending Cond. 2,700
				1st pH 7.20	2nd pH 7.23	Stable pH 7.23	Ending pH 6.60
7-13-09		172.85'	173.60'	1st Temp. 20.0	2nd Temp. 19.1	Stable Temp. 17.8	Ending Temp. 17.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1145	8.674'	7.939'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-2 DUPLICATE			1st Cond. 2,700	2nd Cond. 2,770	Stable Cond. 2,790	Ending Cond. 2,790
				1st pH 6.60	2nd pH 6.58	Stable pH 6.57	Ending pH 6.56
7-13-09		173.60'	173.75'	1st Temp. 17.6	2nd Temp. 16.6	Stable Temp. 16.4	Ending Temp. 17.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1215	7.939'	7.726'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	517			1st Cond. 4,070	2nd Cond. 4,460	Stable Cond. 4,640	Ending Cond. 4,450
				1st pH 2.83	2nd pH 2.72	Stable pH 2.72	Ending pH 3.65
7-13-09		102.80'	108.30'	1st Temp. 23.3	2nd Temp. 21.8	Stable Temp. 21.8	Ending Temp. 21.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1250	3.949'	0.326'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.94	7-14-09/0825	[illegible]
7-Buffer	6.97	7-14-09/0820	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET

Third QUARTER 2009

SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1491	7-14-09/0827	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,760	2nd Cond. 4,840	Stable Cond. 4,990	Ending Cond. 4,990
	708			1st pH 2.55	2nd pH 2.54	Stable pH 2.53	Ending pH 2.53
		152.75'	153.80'	1st Temp. 21.8	2nd Temp. 21.3	Stable Temp. 20.5	Ending Temp. 20.5
7-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1345	5.839'	4.828'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,680	2nd Cond. 4,010	Stable Cond. 4,190	Ending Cond. 4,200
	711			1st pH 2.92	2nd pH 2.87	Stable pH 2.85	Ending pH 4.34
		181.40'	182.20'	1st Temp. 20.9	2nd Temp. 22.7	Stable Temp. 18.4	Ending Temp. 18.3
7-13-09	Time	Bubbler Start	Bubbler End	Comments: Need to inspect pump screen due to a slow discharge.			
	1445	10.774'	9.970'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,200	2nd Cond. 4,240	Stable Cond. 4,230	Ending Cond. 4,200
	711			1st pH 4.34	2nd pH 4.36	Stable pH 4.37	Ending pH 4.58
	DUPLICATE	182.20'	182.80'	1st Temp. 18.3	2nd Temp. 18.0	Stable Temp. 17.7	Ending Temp. 17.0
7-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1540	10.774'	9.449'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,200	2nd Cond. 5,250	Stable Cond. 5,430	Ending Cond. 5,480
	EPA-13			1st pH 6.28	2nd pH 6.32	Stable pH 6.37	Ending pH 5.85
		166.90'	168.00'	1st Temp. 17.2	2nd Temp. 16.7	Stable Temp. 16.0	Ending Temp. 15.8
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	0850	5.445'	5.028'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,000	2nd Cond. 4,410	Stable Cond. 4,670	Ending Cond. 4,670
	504-B			1st pH 3.62	2nd pH 3.59	Stable pH 3.56	Ending pH 3.56
		167.20'	167.40'	1st Temp. 20.3	2nd Temp. 19.7	Stable Temp. 18.6	Ending Temp. 18.6
7-14-09	Time	Bubbler Start	Bubbler End	Comments: Inspect pump and check valve.			
	0930	1.403'	1.264'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,690	2nd Cond. 4,040	Stable Cond. 4,200	Ending Cond. 4,460
	719			1st pH 3.49	2nd pH 3.47	Stable pH 3.44	Ending pH 3.64
		165.90'	166.50'	1st Temp. 18.7	2nd Temp. 18.4	Stable Temp. 17.7	Ending Temp. 16.3
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1025	1.277'	0.739'				

PH Standard Verification Check

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

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GROUND WATER MONITORING FIELD DATA SHEET

Third QUARTER 2009

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
	420			1st Cond. 2,810	2nd Cond. 2,980	Stable Cond. 3,070	Ending Cond. 3,200
				1st pH 7.08	2nd pH 7.18	Stable pH 7.25	Ending pH 6.45
		148.10'	148.90'	1st Temp. 19.6	2nd Temp. 18.5	Stable Temp. 17.9	Ending Temp. 17.2
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1105	6.435'	5.749'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 4,720	2nd Cond. 5,100	Stable Cond. 5,260	Ending Cond. 5,480
				1st pH 4.15	2nd pH 4.15	Stable pH 4.13	Ending pH 3.93
		128.60'	128.70'	1st Temp. 19.2	2nd Temp. 18.6	Stable Temp. 17.5	Ending Temp. 19.2
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1145	3.088'	3.061'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	TWQ-142			1st Cond. 1628	2nd Cond. 1,631	Stable Cond. 1,650	Ending Cond. 1,665
				1st pH 7.73	2nd pH 7.65	Stable pH 7.56	Ending pH 7.88
		201.20'	201.65'	1st Temp. 20.6	2nd Temp. 20.3	Stable Temp. 19.2	Ending Temp. 18.5
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1250	19.666'	19.126'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NBL-1			1st Cond. 3,110	2nd Cond. 3,220	Stable Cond. 3,370	Ending Cond. 3,370
				1st pH 7.18	2nd pH 7.16	Stable pH 7.16	Ending pH 7.16
		183.78'	183.78'	1st Temp. 24.4	2nd Temp. 24.1	Stable Temp. 23.7	Ending Temp. 23.7
7-14-09	Time	Bubbler Start	Bubbler End	Comments: Need to lower sample tubing and pump down the well.			
	1335	0.379'	0.350'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD			1st Cond. 405	2nd Cond.	Stable Cond.	Ending Cond.
	BLANK			1st pH 8.09	2nd pH	Stable pH	Ending pH
				1st Temp. 32.3	2nd Temp.	Stable Temp.	Ending Temp.
7-14-09	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	3.94	7-14-09/0825	[illegible]
7-Buffer	6.97	7-14-09/0820	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1491	7-14-09/0827	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NBL-2	157.95'	158.20'	1st Cond. 3,470	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.91	2nd pH	Stable pH	Ending pH
				1st Temp. 16.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1225	Bubbler Start 5.604'	Bubbler End 5.683'	Comments: Need to inspect pump bladder for damage.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NW-4	184.60'		1st Cond. 4,400	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.64	2nd pH	Stable pH	Ending pH
				1st Temp. 24.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1355	Bubbler Start	Bubbler End	Comments: NW-1, NW-2 and NW-3 are currently Zone 3 pumping/ extraction wells and NW-4 and NW-5 are monitor wells.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NW-1	196.60'		1st Cond. 4,270	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.25	2nd pH	Stable pH	Ending pH
				1st Temp. 15.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1405	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NW-2	184.37'		1st Cond. 3,660	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.15	2nd pH	Stable pH	Ending pH
				1st Temp. 32.6	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1415	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NW-3	177.75'		1st Cond. 3,380	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.40	2nd pH	Stable pH	Ending pH
				1st Temp. 17.5	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1425	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
7-14-09	NW-5	177.50'		1st Cond. 3,440	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.30	2nd pH	Stable pH	Ending pH
				1st Temp. 15.8	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1430	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

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

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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
	PB-2			1st Cond. 4,030	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.68	2nd pH	Stable pH	Ending pH
		180.10'		1st Temp. 23.0	2nd Temp.	Stable Temp.	Ending Temp.
7-14-09	Time	Bubbler Start	Bubbler End	Comments: PB-2 and RW-A are Zone 3 pumping/extraction wells.			
	1440						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	RW-A			1st Cond. 3,660	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.30	2nd pH	Stable pH	Ending pH
		166.55'		1st Temp. 17.3	2nd Temp.	Stable Temp.	Ending Temp.
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1450						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	PB-3			1st Cond. 3,380	2nd Cond. 3,420	Stable Cond. 3,500	Ending Cond. 3,680
				1st pH 7.21	2nd pH 7.22	Stable pH 7.21	Ending pH 6.45
		181.20'	181.25'	1st Temp. 20.8	2nd Temp. 19.8	Stable Temp. 19.2	Ending Temp. 17.1
7-14-09	Time	Bubbler Start	Bubbler End	Comments:			
	1510						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	PB-4			1st Cond. 4,430	2nd Cond. 4,500	Stable Cond. 4,550	Ending Cond. 4,540
				1st pH 2.72	2nd pH 2.63	Stable pH 2.56	Ending pH 2.50
		180.20'	180.80'	1st Temp. 23.0	2nd Temp. 22.5	Stable Temp. 21.8	Ending Temp. 19.6
7-14-09	Time	Bubbler Start	Bubbler End	Comments: Need to inspect pump screen.			
	1525						

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	10-5-09/0820	[illegible]
7-Buffer	7.08	10-5-09/0817	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1490	10-5-09/0821	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-5-09	509-D	77.70'	77.70'	1st Cond. 5,680	2nd Cond. 5,980	Stable Cond. 6,080	Ending Cond. 6,400
				1st pH 6.80	2nd pH 6.81	Stable pH 6.78	Ending pH 6.44
				1st Temp. 13.8	2nd Temp. 13.6	Stable Temp. 13.3	Ending Temp. 12.9
	Time 0845	Bubbler Start 2.887'	Bubbler End 2.868'	Comments: Conductivity is in uS/cm; Temperature is in °C; pH is in std. units			
10-5-09	EPA-23	54.10'	54.40'	1st Cond. 2,550	2nd Cond. 4,470	Stable Cond. 4,560	Ending Cond. 4,470
				1st pH 6.86	2nd pH 6.82	Stable pH 6.70	Ending pH 6.58
				1st Temp. 13.5	2nd Temp. 13.3	Stable Temp. 13.1	Ending Temp. 13.3
	Time 0926	Bubbler Start 7.849'	Bubbler End 7.543'	Comments:			
10-5-09	801	51.35'	52.30'	1st Cond. 5,730	2nd Cond. 5,940	Stable Cond. 6,050	Ending Cond. 6,110
				1st pH 6.65	2nd pH 6.64	Stable pH 6.60	Ending pH 6.47
				1st Temp. 14.3	2nd Temp. 14.1	Stable Temp. 13.8	Ending Temp. 13.5
	Time 1006	Bubbler Start 10.410'	Bubbler End 9.407'	Comments:			
10-5-09	802	47.60'	47.60'	1st Cond. 6,710	2nd Cond. 7,030	Stable Cond. 7,050	Ending Cond. 7,520
				1st pH 6.51	2nd pH 6.50	Stable pH 6.49	Ending pH 6.51
				1st Temp. 14.4	2nd Temp. 14.3	Stable Temp. 14.0	Ending Temp. 13.3
	Time 1052	Bubbler Start 20.512'	Bubbler End 20.094'	Comments:			
10-5-09	803	61.70'	61.85'	1st Cond. 5,870	2nd Cond. 6,000	Stable Cond. 6,110	Ending Cond. 6,320
				1st pH 6.59	2nd pH 6.58	Stable pH 6.54	Ending pH 6.43
				1st Temp. 14.0	2nd Temp. 13.8	Stable Temp. 13.8	Ending Temp. 13.6
	Time 1132	Bubbler Start 15.157'	Bubbler End 15.009'	Comments:			
10-5-09	624	50.80'	50.80'	1st Cond. 4,350	2nd Cond. 4,590	Stable Cond. 4,800	Ending Cond. 5,130
				1st pH 7.06	2nd pH 6.89	Stable pH 6.68	Ending pH 6.44
				1st Temp. 14.7	2nd Temp. 14.5	Stable Temp. 14.1	Ending Temp. 14.1
	Time 1240	Bubbler Start 11.826'	Bubbler End 11.806'	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.04	10-6-09/0811	[illegible]
7-Buffer	7.04	10-6-09/0814	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1543	10-6-09/0815	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	SBL-1			1st Cond. 6,680	2nd Cond. 6,810	Stable Cond. 6,920	Ending Cond. 7,380
				1st pH 6.86	2nd pH 6.80	Stable pH 6.77	Ending pH 6.63
		50.20'	51.00'	1st Temp. 15.2	2nd Temp. 15.0	Stable Temp. 14.9	Ending Temp. 14.6
10-5-09	Time	Bubbler Start	Bubbler End	Comments:			
	1353	9.697'	8.965'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28			1st Cond. 4,300	2nd Cond. 4,550	Stable Cond. 4,630	Ending Cond. 4,860
				1st pH 7.23	2nd pH 7.17	Stable pH 7.01	Ending pH 6.64
		62.85'	63.15'	1st Temp. 15.9	2nd Temp. 15.7	Stable Temp. 15.4	Ending Temp. 14.6
10-5-09	Time	Bubbler Start	Bubbler End	Comments:			
	1435	7.599'	7.307'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28			1st Cond. 4,850	2nd Cond. 4,910	Stable Cond. 4,910	Ending Cond. 4,780
	DUPLICATE			1st pH 6.67	2nd pH 6.63	Stable pH 6.64	Ending pH 6.65
		63.15'	63.20'	1st Temp. 14.5	2nd Temp. 14.6	Stable Temp. 14.2	Ending Temp. 15.0
10-5-09	Time	Bubbler Start	Bubbler End	Comments:			
	1510	7.599'	7.190'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	604			1st Cond. 5,480	2nd Cond. 6,120	Stable Cond. 6,260	Ending Cond. 6,350
				1st pH 5.03	2nd pH 5.03	Stable pH 5.05	Ending pH 5.12
		102.35'	103.20'	1st Temp. 12.5	2nd Temp. 12.5	Stable Temp. 12.4	Ending Temp. 12.3
10-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	0845	7.179'	6.437'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-14			1st Cond. 2,540	2nd Cond. 5,250	Stable Cond. 5,260	Ending Cond. 4,900
				1st pH 4.35	2nd pH 4.35	Stable pH 4.35	Ending pH 4.42
		119.00'	119.05'	1st Temp. 13.3	2nd Temp. 13.3	Stable Temp. 13.1	Ending Temp. 13.4
10-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1010	3.642'	3.557'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	808			1st Cond. 5,400	2nd Cond. 5,900	Stable Cond. 6,160	Ending Cond. 6,500
				1st pH 6.48	2nd pH 6.41	Stable pH 6.37	Ending pH 6.34
		49.30'	49.40'	1st Temp. 15.4	2nd Temp. 15.3	Stable Temp. 14.9	Ending Temp. 14.7
10-6-09	Time	Bubbler Start	Bubbler End	Comments:			
	1126	14.435'	14.372'				

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
				1st Cond. 7,440	2nd Cond. 7,470	Stable Cond. 7,520	Ending Cond. 7,800
	GW-2	55.90'	56.70'	1st pH 6.25	2nd pH 6.25	Stable pH 6.24	Ending pH 6.19
10-6-09				1st Temp. 14.5	2nd Temp. 14.9	Stable Temp. 14.2	Ending Temp. 13.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1205	15.017'	14.259'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,590	2nd Cond. 5,650	Stable Cond. 6,030	Ending Cond. 6,630
	GW-1	61.60'	61.60'	1st pH 7.10	2nd pH 6.93	Stable pH 6.59	Ending pH 6.43
10-6-09				1st Temp. 15.6	2nd Temp. 15.5	Stable Temp. 15.2	Ending Temp. 14.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1248	9.227'	9.212'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,280	2nd Cond. 6,560	Stable Cond. 6,790	Ending Cond. 6,950
	632	44.40'	46.80'	1st pH 6.38	2nd pH 6.38	Stable pH 6.37	Ending pH 6.24
10-6-09				1st Temp. 16.2	2nd Temp. 15.9	Stable Temp. 15.5	Ending Temp. 14.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1340	12.709'	10.307'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,630	2nd Cond. 5,240	Stable Cond. 5,300	Ending Cond. 5,470
	GW-3	52.90'	54.40'	1st pH 6.59	2nd pH 6.59	Stable pH 6.61	Ending pH 6.38
10-6-09				1st Temp. 16.5	2nd Temp. 16.2	Stable Temp. 16.1	Ending Temp. 16.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1428	2.777'	1.244'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,670	2nd Cond. 3,750	Stable Cond. 3,850	Ending Cond. 4,190
	EPA-25	53.50'	53.60'	1st pH 6.92	2nd pH 6.90	Stable pH 6.87	Ending pH 6.70
10-6-09				1st Temp. 16.2	2nd Temp. 15.7	Stable Temp. 15.6	Ending Temp. 15.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1522	7.415'	7.270'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,970	2nd Cond. 4,430	Stable Cond. 4,590	Ending Cond. 4,740
	627	58.20'	58.35'	1st pH 6.98	2nd pH 6.97	Stable pH 6.96	Ending pH 6.93
10-6-09				1st Temp. 16.6	2nd Temp. 16.4	Stable Temp. 15.9	Ending Temp. 14.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1613	4.360'	4.311'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.03	10-7-09/0820	[illegible]
7-Buffer	7.06	10-7-09/0825	[illegible]

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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
10-7-09	614	103.20'	103.95'	1st Cond. 5,320	2nd Cond. 5,920	Stable Cond. 6,370	Ending Cond. 6,780
				1st pH 6.68	2nd pH 6.77	Stable pH 6.82	Ending pH 6.94
				1st Temp. 14.4	2nd Temp. 14.0	Stable Temp. 13.9	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments:			
	0840	3.406'	2.703'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-7-09	515-A	103.25'	108.30'	1st Cond. 7,060	2nd Cond. 7,250	Stable Cond. 7,370	Ending Cond. 7,440
				1st pH 6.78	2nd pH 6.70	Stable pH 6.62	Ending pH 6.32
				1st Temp. 13.6	2nd Temp. 13.2	Stable Temp. 13.2	Ending Temp. 13.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0935	6.175'	0.322'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-7-09	613	79.15'	80.00'	1st Cond. 9,040	2nd Cond. 9,180	Stable Cond. 9,280	Ending Cond. 9,390
				1st pH 3.09	2nd pH 3.06	Stable pH 3.03	Ending pH 3.00
				1st Temp. 14.7	2nd Temp. 14.4	Stable Temp. 14.5	Ending Temp. 14.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	5.736'	4.877'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-7-09	FIELD BLANK			1st Cond. 13	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.20	2nd pH	Stable pH	Ending pH
				1st Temp. 18.7	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1145						

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	4.07	10-12-09/0828	[illegible]
7-Buffer	7.06	10-12-09/0827	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1544	10-12-09/0826	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	EPA-4	206.10'	206.60'	1st Cond. 3,840	2nd Cond. 3,980	Stable Cond. 4,100	Ending Cond. 4,250
				1st pH 6.40	2nd pH 6.46	Stable pH 6.53	Ending pH 6.73
				1st Temp. 14.1	2nd Temp. 13.6	Stable Temp. 13.7	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	0900	17.002'	16.588'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	EPA-5	124.50'	125.00'	1st Cond. 3,930	2nd Cond. 4,110	Stable Cond. 4,300	Ending Cond. 4,380
				1st pH 5.40	2nd pH 5.34	Stable pH 5.28	Ending pH 5.94
				1st Temp. 15.1	2nd Temp. 14.9	Stable Temp. 14.6	Ending Temp. 14.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0954	6.515'	5.995'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	EPA-7	114.15'	115.65'	1st Cond. 2,550	2nd Cond. 7,280	Stable Cond. 7,390	Ending Cond. 7,520
				1st pH 6.93	2nd pH 6.95	Stable pH 6.97	Ending pH 6.00
				1st Temp. 14.1	2nd Temp. 13.8	Stable Temp. 13.7	Ending Temp. 13.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1035	13.072'	11.586'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	EPA-2	172.75'	173.55'	1st Cond. 2,310	2nd Cond. 2,630	Stable Cond. 2,770	Ending Cond. 2,910
				1st pH 6.89	2nd pH 6.95	Stable pH 6.99	Ending pH 6.77
				1st Temp. 14.4	2nd Temp. 14.0	Stable Temp. 13.9	Ending Temp. 13.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1124	8.821'	8.066'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	EPA-2 DUPLICATE	173.55'	173.75'	1st Cond. 2,910	2nd Cond. 2,910	Stable Cond. 2,960	Ending Cond. 2,900
				1st pH 6.77	2nd pH 6.74	Stable pH 6.74	Ending pH 6.68
				1st Temp. 13.9	2nd Temp. 13.4	Stable Temp. 13.3	Ending Temp. 14.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1155	8.066'	7.860'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	517	102.60'	108.00'	1st Cond. 4,610	2nd Cond. 4,830	Stable Cond. 4,940	Ending Cond. 4,580
				1st pH 2.79	2nd pH 2.79	Stable pH 2.79	Ending pH 3.70
				1st Temp. 15.7	2nd Temp. 15.3	Stable Temp. 15.1	Ending Temp. 14.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1230	3.399'	0.295'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.99	10-13-09/0813	[illegible]
7-Buffer	6.98	10-13-09/0810	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1539	10-13-09/0809	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	708	152.65'	153.80'	1st Cond. 4,320	2nd Cond. 4,930	Stable Cond. 5,160	Ending Cond. 4,980
				1st pH 2.74	2nd pH 2.75	Stable pH 2.73	Ending pH 3.58
				1st Temp. 16.0	2nd Temp. 15.9	Stable Temp. 15.6	Ending Temp. 14.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1320	5.793'	4.691'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	711	181.30'	182.20'	1st Cond. 3,420	2nd Cond. 4,200	Stable Cond. 4,400	Ending Cond. 4,240
				1st pH 3.02	2nd pH 2.99	Stable pH 2.98	Ending pH 4.47
				1st Temp. 16.1	2nd Temp. 15.8	Stable Temp. 15.4	Ending Temp. 15.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1412	10.915'	10.091'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-12-09	711 DUPLICATE	182.20'	182.60'	1st Cond. 4,290	2nd Cond. 4,280	Stable Cond. 4,320	Ending Cond. 4,670
				1st pH 4.49	2nd pH 4.51	Stable pH 4.52	Ending pH 4.25
				1st Temp. 14.9	2nd Temp. 14.8	Stable Temp. 14.7	Ending Temp. 15.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1455	10.091'	9.575'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	EPA-13	166.70'	167.90'	1st Cond. 5,130	2nd Cond. 5,470	Stable Cond. 5,560	Ending Cond. 5,600
				1st pH 5.93	2nd pH 5.99	Stable pH 6.04	Ending pH 5.83
				1st Temp. 13.8	2nd Temp. 13.4	Stable Temp. 13.5	Ending Temp. 13.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0854	6.209'	5.135'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	504-B	167.35'	168.00'	1st Cond. 4,290	2nd Cond. 4,910	Stable Cond. 5,030	Ending Cond. 4,860
				1st pH 3.35	2nd pH 3.36	Stable pH 3.34	Ending pH 5.50
				1st Temp. 14.0	2nd Temp. 13.7	Stable Temp. 13.4	Ending Temp. 14.5
	Time	Bubbler Start	Bubbler End	Comments:			
	0940	0.939'	0.430'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	719	166.25'	166.80'	1st Cond. 3,960	2nd Cond. 4,340	Stable Cond. 4,450	Ending Cond. 4,740
				1st pH 3.38	2nd pH 3.37	Stable pH 3.37	Ending pH 3.94
				1st Temp. 14.8	2nd Temp. 14.4	Stable Temp. 14.2	Ending Temp. 14.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1050	0.999'	0.462'				

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
	420			1st Cond. 2,950	2nd Cond. 3,140	Stable Cond. 3,200	Ending Cond. 3,210
				1st pH 6.68	2nd pH 6.73	Stable pH 6.78	Ending pH 6.48
		148.40'	149.10'	1st Temp. 14.6	2nd Temp. 14.6	Stable Temp. 14.2	Ending Temp. 15.1
10-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1130	6.190'	5.413'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 3,880	2nd Cond. 4,410	Stable Cond. 5,310	Ending Cond. 5,690
				1st pH 4.15	2nd pH 4.16	Stable pH 4.20	Ending pH 4.14
		128.90'	128.95'	1st Temp. 15.6	2nd Temp. 15.6	Stable Temp. 15.4	Ending Temp. 14.9
10-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1220	2.855'	2.817'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	TWQ-142			1st Cond. 1,624	2nd Cond. 1,632	Stable Cond. 1,674	Ending Cond. 1,699
				1st pH 7.38	2nd pH 7.35	Stable pH 7.34	Ending pH 7.76
		201.10'	202.00'	1st Temp. 14.9	2nd Temp. 14.7	Stable Temp. 14.6	Ending Temp. 14.0
10-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1440	19.842'	18.732'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NBL-1			1st Cond. 3,660	2nd Cond. 3,730	Stable Cond. 3,840	Ending Cond. 3,960
				1st pH 6.04	2nd pH 5.82	Stable pH 5.72	Ending pH 5.65
		184.31'	184.43'	1st Temp. 15.1	2nd Temp. 15.7	Stable Temp. 14.2	Ending Temp. 14.3
10-13-09	Time	Bubbler Start	Bubbler End	Comments: Possible bladder rupture during sampling and will need to check and replace damaged parts.			
	1515	7.505'	7.339'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD BLANK			1st Cond. 9	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.59	2nd pH	Stable pH	Ending pH
				1st Temp. 20.2	2nd Temp.	Stable Temp.	Ending Temp.
10-13-09	Time	Bubbler Start	Bubbler End	Comments:			
	1710						

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	3.99	10-13-09/0813	rc
7-Buffer	6.98	10-13-09/0810	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1539	10-13-09/0809	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	NBL-2	158.35'	158.60'	1st Cond. 3,020	2nd Cond. 3,220	Stable Cond. 3,360	Ending Cond. 3,360
				1st pH 6.32	2nd pH 6.36	Stable pH 6.41	Ending pH 6.41
				1st Temp. 14.4	2nd Temp. 14.2	Stable Temp. 13.8	Ending Temp. 13.8
	Time 1315	Bubbler Start 5.088'	Bubbler End 4.942'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	RW-A	179.10'	178.40'	1st Cond. 3,470	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.80	2nd pH	Stable pH	Ending pH
				1st Temp. 18.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1350	Bubbler Start	Bubbler End	Comments: PB-2 and RW-A are the Zone 3 pumping/extraction wells.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	RW-11	165.55'		1st Cond. 3,440	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.90	2nd pH	Stable pH	Ending pH
				1st Temp. 18.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1410	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	PB-3	181.87'		1st Cond. 3,080	2nd Cond. 3,270	Stable Cond. 3,360	Ending Cond. 3,530
				1st pH 6.35	2nd pH 6.34	Stable pH 6.31	Ending pH 6.26
				1st Temp. 16.8	2nd Temp. 16.4	Stable Temp. 16.1	Ending Temp. 16.0
	Time 1540	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
10-13-09	PB-2	181.00'		1st Cond. 3,980	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.55	2nd pH	Stable pH	Ending pH
				1st Temp. 16.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1600	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			
7-Buffer			

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Fourth QUARTER 2009
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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
10-13-09	NW-4	185.58'		1st Cond. 4,080	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.59	2nd pH	Stable pH	Ending pH
				1st Temp. 16.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1610	Bubbler Start	Bubbler End	Comments: NW-1, NW-2 and NW-3 are the zone 3' pumping/extraction wells and NW-4 and NW-5 are the monitor wells.			
10-13-09	NW-2	185.75'		1st Cond. 3,480	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.73	2nd pH	Stable pH	Ending pH
				1st Temp. 15.4	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1625	Bubbler Start	Bubbler End	Comments:			
10-13-09	NW-5	178.15'		1st Cond. 3,340	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.15	2nd pH	Stable pH	Ending pH
				1st Temp. 12.8	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1630	Bubbler Start	Bubbler End	Comments:			
10-13-09	NW-3	178.33'		1st Cond. 3,250	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.91	2nd pH	Stable pH	Ending pH
				1st Temp. 15.1	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1640	Bubbler Start	Bubbler End	Comments:			
10-13-09	NW-1	198.85'		1st Cond. 4,060	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.01	2nd pH	Stable pH	Ending pH
				1st Temp. 20.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1653	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:			

APPENDIX B

QUARTERLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

JULY AND OCTOBER OF 2009

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070426-004
Client Sample ID: Field Blank

Report Date: 08/06/09
Collection Date: 07/08/09 11:30
DateReceived: 07/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	72	mg/L		1		A2320 B	07/13/09 20:38 / ljl
Calcium	ND	mg/L		1		E200.7	07/21/09 16:06 / cp
Chloride	14	mg/L		1		A4500-Cl B	07/21/09 12:19 / ja
Magnesium	ND	mg/L		1		E200.7	07/21/09 16:06 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	07/21/09 10:23 / jal
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	07/22/09 14:13 / jal
Potassium	ND	mg/L		1		E200.7	07/21/09 16:06 / cp
Sodium	33	mg/L		1		E200.7	07/21/09 16:06 / cp
Sulfate	4	mg/L		1		A4500-SO4 E	07/24/09 11:10 / jal
PHYSICAL PROPERTIES							
pH	8.12	s.u.		0.01		A4500-H B	07/14/09 10:24 / tlb
Solids, Total Dissolved TDS @ 180 C	106	mg/L		10		A2540 C	07/15/09 16:03 / emm
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/17/09 10:13 / sml
Beryllium	ND	mg/L		0.01		E200.8	07/16/09 01:10 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/16/09 01:10 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/16/09 01:10 / ts
Lead	ND	mg/L		0.05		E200.8	07/16/09 01:10 / ts
Manganese	ND	mg/L		0.01		E200.8	07/16/09 01:10 / ts
Molybdenum	ND	mg/L		0.1		E200.8	07/16/09 01:10 / ts
Nickel	ND	mg/L		0.05		E200.8	07/16/09 01:10 / ts
Uranium	ND	mg/L		0.0003		E200.8	07/16/09 01:10 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/16/09 01:10 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/22/09 15:52 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/04/09 12:12 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.5	pCi/L	U			E900.1	07/22/09 22:40 / cgr
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	07/22/09 22:40 / cgr
Gross Alpha minus Rn & U MDC	0.8	pCi/L				E900.1	07/22/09 22:40 / cgr
Lead 210	1.5	pCi/L	U			E909.0M	07/20/09 09:54 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	07/20/09 09:54 / dm
Lead 210 MDC	2.6	pCi/L				E909.0M	07/20/09 09:54 / dm
Radium 226	-0.1	pCi/L	U			E903.0	07/27/09 17:14 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/27/09 17:14 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/27/09 17:14 / trs
Radium 228	0.007	pCi/L	U			RA-05	07/20/09 14:46 / plj
Radium 228 precision (±)	0.74	pCi/L				RA-05	07/20/09 14:46 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	07/20/09 14:46 / 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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070426-004
Client Sample ID: Field Blank

Report Date: 08/06/09
Collection Date: 07/08/09 11:30
DateReceived: 07/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L	U			E907.0	07/24/09 10:49 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E907.0	07/24/09 10:49 / dmf
Thorium 230 MDC	0.3	pCi/L				E907.0	07/24/09 10:49 / dmf
DATA QUALITY							
A/C Balance (± 5)	-6.80	%				Calculation	07/25/09 11:15 / sdw
Anions	1.66	meq/L				Calculation	07/25/09 11:15 / sdw
Cations	1.45	meq/L				Calculation	07/25/09 11:15 / sdw
Solids, Total Dissolved Calculated	107	mg/L				Calculation	07/25/09 11:15 / sdw
TDS Balance (0.80 - 1.20)	0.990					Calculation	07/25/09 11:15 / sdw
- The ion balance was affected by the low concentration of major analytes.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/14/09 15:16 / jlr
Bromoform	ND	ug/L		0.50		E624	07/14/09 15:16 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	07/14/09 15:16 / jlr
Chloroform	ND	ug/L		0.50		E624	07/14/09 15:16 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/14/09 15:16 / jlr
Surr: 1,2-Dichlorobenzene-d4	107	%REC		80-120		E624	07/14/09 15:16 / jlr
Surr: Dibromofluoromethane	77.0	%REC	S	80-120		E624	07/14/09 15:16 / jlr
Surr: p-Bromofluorobenzene	90.0	%REC		80-120		E624	07/14/09 15:16 / jlr
Surr: Toluene-d8	105	%REC		80-120		E624	07/14/09 15:16 / 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.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070725-008
Client Sample ID: Field Blank

Report Date: 08/24/09
Collection Date: 07/14/09 16:00
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	81	mg/L		1		A2320 B	07/21/09 17:26 / ljl
Calcium	ND	mg/L		1		E200.7	07/30/09 16:33 / cp
Chloride	74	mg/L		1		A4500-Cl B	07/21/09 15:33 / ja
Magnesium	ND	mg/L		1		E200.7	07/30/09 16:33 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	07/21/09 13:59 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	07/22/09 15:21 / jal
Potassium	1	mg/L		1		E200.7	07/30/09 16:33 / cp
Sodium	78	mg/L		1		E200.7	07/30/09 16:33 / cp
Sulfate	6	mg/L		1		A4500-SO4 E	07/30/09 15:27 / jal
PHYSICAL PROPERTIES							
pH	8.25	s.u.		0.01		A4500-H B	07/21/09 16:20 / tlb
Solids, Total Dissolved TDS @ 180 C	228	mg/L	H	10		A2540 C	07/22/09 15:38 / emm
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/21/09 20:39 / ts
Beryllium	ND	mg/L		0.01		E200.8	07/21/09 20:39 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/21/09 20:39 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/21/09 20:39 / ts
Lead	ND	mg/L		0.05		E200.8	07/21/09 20:39 / ts
Manganese	ND	mg/L		0.01		E200.8	07/21/09 20:39 / ts
Molybdenum	ND	mg/L		0.1		E200.8	07/21/09 20:39 / ts
Nickel	ND	mg/L		0.05		E200.8	07/21/09 20:39 / ts
Uranium	ND	mg/L		0.0003		E200.8	07/21/09 20:39 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/21/09 20:39 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/30/09 17:47 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/04/09 13:33 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.6	pCi/L				E900.1	08/03/09 17:11 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	08/03/09 17:11 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	08/03/09 17:11 / cgr
Lead 210	0.5	pCi/L	U			E909.0M	08/29/09 08:45 / dm
Lead 210 precision (±)	1.4	pCi/L				E909.0M	08/29/09 08:45 / dm
Lead 210 MDC	2.4	pCi/L				E909.0M	08/29/09 08:45 / dm
Radium 226	0.10	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 226 MDC	0.09	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 228	-0.9	pCi/L	U			RA-05	07/28/09 15:51 / plj
Radium 228 precision (±)	0.71	pCi/L				RA-05	07/28/09 15:51 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	07/28/09 15:51 / 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.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070725-008
Client Sample ID: Field Blank

Report Date: 08/24/09
Collection Date: 07/14/09 16:00
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.02	pCi/L	U			E907.0	08/04/09 08:57 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	08/04/09 08:57 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	08/04/09 08:57 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.62	%				Calculation	07/31/09 10:47 / kbh
Anions	3.54	meq/L				Calculation	07/31/09 10:47 / kbh
Cations	3.43	meq/L				Calculation	07/31/09 10:47 / kbh
Solids, Total Dissolved Calculated	220	mg/L				Calculation	07/31/09 10:47 / kbh
TDS Balance (0.80 - 1.20)	1.04					Calculation	07/31/09 10:47 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/23/09 21:13 / jlr
Bromoform	0.89	ug/L		0.50		E624	07/23/09 21:13 / jlr
Chlorodibromomethane	0.92	ug/L		0.50		E624	07/23/09 21:13 / jlr
Chloroform	0.72	ug/L		0.50		E624	07/23/09 21:13 / jlr
Trihalomethanes, Total	3.00	ug/L		0.50		E624	07/23/09 21:13 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	07/23/09 21:13 / jlr
Surr: Dibromofluoromethane	98.0	%REC		80-120		E624	07/23/09 21:13 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	07/23/09 21:13 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		E624	07/23/09 21:13 / jlr

Report Definitions:
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09100425-004
Client Sample ID: Field Blank

Report Date: 11/20/09
Collection Date: 10/07/09 11:45
DateReceived: 10/09/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	18	mg/L		1		A2320 B	10/12/09 22:14 / dvg
Calcium	ND	mg/L		1		E200.7	10/16/09 13:26 / cp
Chloride	1	mg/L		1		A4500-Cl B	10/12/09 12:02 / lr
Magnesium	ND	mg/L		1		E200.7	10/16/09 13:26 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/15/09 13:05 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/19/09 11:40 / jal
Potassium	ND	mg/L		1		E200.7	10/16/09 13:26 / cp
Sodium	2	mg/L		1		E200.7	10/16/09 13:26 / cp
Sulfate	2	mg/L		1		A4500-SO4 E	10/14/09 16:11 / lr
PHYSICAL PROPERTIES							
pH	7.69	s.u.		0.01		A4500-H B	10/13/09 16:21 / th
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	10/14/09 10:00 / th
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/15/09 04:19 / ts
Beryllium	ND	mg/L		0.01		E200.8	10/15/09 04:19 / ts
Cadmium	ND	mg/L		0.005		E200.8	10/15/09 04:19 / ts
Cobalt	ND	mg/L		0.01		E200.8	10/15/09 04:19 / ts
Lead	ND	mg/L		0.05		E200.8	10/15/09 04:19 / ts
Manganese	ND	mg/L		0.01		E200.8	10/15/09 04:19 / ts
Molybdenum	ND	mg/L		0.1		E200.8	10/15/09 04:19 / ts
Nickel	ND	mg/L		0.05		E200.8	10/15/09 04:19 / ts
Uranium	ND	mg/L		0.0003		E200.8	10/15/09 04:19 / ts
Vanadium	ND	mg/L		0.1		E200.8	10/15/09 04:19 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	10/19/09 17:39 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/13/09 15:01 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.2	pCi/L	U			E900.1	10/27/09 20:36 / cgr
Gross Alpha minus Rn & U Precision (±)	0.2	pCi/L				E900.1	10/27/09 20:36 / cgr
Gross Alpha minus Rn & U MDC	0.4	pCi/L				E900.1	10/27/09 20:36 / cgr
Lead 210	-0.7	pCi/L	U			E909.0M	11/03/09 05:30 / dm
Lead 210 precision (±)	1.5	pCi/L				E909.0M	11/03/09 05:30 / dm
Lead 210 MDC	2.6	pCi/L				E909.0M	11/03/09 05:30 / dm
Radium 226	0.31	pCi/L				E903.0	11/06/09 00:14 / trs
Radium 226 precision (±)	0.17	pCi/L				E903.0	11/06/09 00:14 / trs
Radium 226 MDC	0.22	pCi/L				E903.0	11/06/09 00:14 / trs
Radium 228	0.30	pCi/L	U			RA-05	10/30/09 11:20 / plj
Radium 228 precision (±)	0.85	pCi/L				RA-05	10/30/09 11:20 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	10/30/09 11:20 / plj

Report Definitions:
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MDC - Minimum detectable concentration
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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09100425-004
Client Sample ID: Field Blank

Report Date: 11/20/09
Collection Date: 10/07/09 11:45
DateReceived: 10/09/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.01	pCi/L	U			E907.0	10/30/09 17:12 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/30/09 17:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	10/30/09 17:12 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-55.2	%				Calculation	10/20/09 12:29 / kbh
Anions	0.370	meq/L				Calculation	10/20/09 12:29 / kbh
Cations	0.107	meq/L				Calculation	10/20/09 12:29 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/14/09 16:35 / jlr
Bromoform	0.60	ug/L		0.50		E624	10/14/09 16:35 / jlr
Chlorodibromomethane	0.59	ug/L		0.50		E624	10/14/09 16:35 / jlr
Chloroform	ND	ug/L		0.50		E624	10/14/09 16:35 / jlr
Trihalomethanes, Total	1.19	ug/L		0.50		E624	10/14/09 16:35 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		E624	10/14/09 16:35 / jlr
Surr: Dibromofluoromethane	109	%REC		80-120		E624	10/14/09 16:35 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	10/14/09 16:35 / jlr
Surr: Toluene-d8	90.0	%REC		80-120		E624	10/14/09 16:35 / jlr

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration
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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09100637-016
Client Sample ID: Field Blank

Report Date: 11/30/09
Collection Date: 10/13/09 17:10
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	16	mg/L		1		A2320 B	10/20/09 13:43 / dvg
Calcium	ND	mg/L		1		E200.7	10/23/09 20:31 / cp
Chloride	ND	mg/L		1		A4500-Cl B	10/19/09 15:09 / lr
Magnesium	ND	mg/L		1		E200.7	10/23/09 20:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/28/09 13:05 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/21/09 14:14 / jal
Potassium	ND	mg/L		1		E200.7	10/23/09 20:31 / cp
Sodium	2	mg/L		1		E200.7	10/23/09 20:31 / cp
Sulfate	ND	mg/L		1		A4500-SO4 E	10/16/09 15:44 / lr
PHYSICAL PROPERTIES							
pH	7.03	s.u.		0.01		A4500-H B	10/21/09 12:38 / ljl
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	H	10		A2540 C	10/22/09 13:34 / kre
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/19/09 21:52 / ts
Beryllium	ND	mg/L		0.01		E200.8	10/19/09 21:52 / ts
Cadmium	ND	mg/L		0.005		E200.8	10/19/09 21:52 / ts
Cobalt	ND	mg/L		0.01		E200.8	10/19/09 21:52 / ts
Lead	ND	mg/L		0.05		E200.8	10/19/09 21:52 / ts
Manganese	ND	mg/L		0.01		E200.8	10/19/09 21:52 / ts
Molybdenum	ND	mg/L		0.1		E200.8	10/19/09 21:52 / ts
Nickel	ND	mg/L		0.05		E200.8	10/19/09 21:52 / ts
Uranium	ND	mg/L		0.0003		E200.8	10/19/09 21:52 / ts
Vanadium	ND	mg/L		0.1		E200.8	10/19/09 21:52 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	10/29/09 17:54 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/09 15:30 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.8	pCi/L	U			E900.1	11/06/09 17:27 / cgr
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	11/06/09 17:27 / cgr
Gross Alpha minus Rn & U MDC	0.9	pCi/L				E900.1	11/06/09 17:27 / cgr
Lead 210	-0.4	pCi/L	U			E909.0M	11/11/09 06:07 / dm
Lead 210 precision (±)	2.3	pCi/L				E909.0M	11/11/09 06:07 / dm
Lead 210 MDC	3.9	pCi/L				E909.0M	11/11/09 06:07 / dm
Radium 226	-0.2	pCi/L	U			E903.0	11/10/09 23:52 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	11/10/09 23:52 / jah
Radium 226 MDC	0.22	pCi/L				E903.0	11/10/09 23:52 / jah
Radium 228	0.33	pCi/L	U			RA-05	11/05/09 10:19 / plj
Radium 228 precision (±)	0.75	pCi/L				RA-05	11/05/09 10:19 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	11/05/09 10:19 / plj

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09100637-016
Client Sample ID: Field Blank

Report Date: 11/30/09
Collection Date: 10/13/09 17:10
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.05	pCi/L	U			E907.0	11/04/09 13:15 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	11/04/09 13:15 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	11/04/09 13:15 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-59.4	%				Calculation	10/26/09 13:53 / kbh
Anions	0.279	meq/L				Calculation	10/26/09 13:53 / kbh
Cations	0.0710	meq/L				Calculation	10/26/09 13:53 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	1.28	ug/L		0.50		E624	10/22/09 04:56 / jlr
Bromoform	1.47	ug/L		0.50		E624	10/22/09 04:56 / jlr
Chlorodibromomethane	1.85	ug/L		0.50		E624	10/22/09 04:56 / jlr
Chloroform	1.73	ug/L		0.50		E624	10/22/09 04:56 / jlr
Trihalomethanes, Total	6.33	ug/L		0.50		E624	10/22/09 04:56 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	10/22/09 04:56 / jlr
Surr: Dibromofluoromethane	113	%REC		80-120		E624	10/22/09 04:56 / jlr
Surr: p-Bromofluorobenzene	87.0	%REC		80-120		E624	10/22/09 04:56 / jlr
Surr: Toluene-d8	112	%REC		80-120		E624	10/22/09 04:56 / jlr

Report Definitions:
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MDC - Minimum detectable concentration
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UNC Mining and Milling ChurchRock Operations
GroundWater Monitoring Summary: Alluvium Monitor Wells

Well ID:		EPA-28	EPA-28	EPA-28	EPA-28
Collection Date:		10/5/2009	7/7/2009	4/7/2009	1/13/2009
Receive Date:		10/9/2009	7/10/2009	4/10/2009	1/16/2009
Report Date:		11/19/2009	8/25/2009	6/3/2009	3/17/2009
Analyte	Units	C09100421-008	C09070417-012	C09040397-012	C09010567-011
Bicarbonate as HCO3	mg/L	824	799	817	796
Calcium	mg/L	515	536	517	591
Chloride	mg/L	120	116	120	113
Magnesium	mg/L	476	480	465	528
Nitrogen, Ammonia as N	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	34	29	34.7	47.8
Potassium	mg/L	11	12	11	13
Sodium	mg/L	209	210	229	237
Sulfate	mg/L	2850	3290	2790	2770
pH	s.u.	7.40	6.97	6.84	6.89
Solids, Total Dissolved TDS @ 180 C	mg/L	5160	5120	5130	5190
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	0.71	0.72	0.66	0.69
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	0.0450	0.0415	0.0519	0.0459
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)	ND(0.001)	0.001	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.5	1.3	0.9	1.4
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.4	0.5	0.4
Gross Alpha minus Rn & U MDC	pCi/L	0.7	0.3	0.6	0.3
Lead 210	pCi/L	1.1	-0.6	-2	-2
Lead 210 precision (±)	pCi/L	3.6	1.6	1.6	5.1
Lead 210 MDC	pCi/L	6.0	2.6	2.8	8.6
Radium 226	pCi/L	0.73	0.64	0.27	0.28
Radium 226 precision (±)	pCi/L	0.20	0.15	0.13	0.12
Radium 226 MDC	pCi/L	0.14	0.1	0.17	0.15
Radium 228	pCi/L	1.4	1.5	1.0	0.68
Radium 228 precision (±)	pCi/L	0.92	0.74	0.57	0.79
Radium 228 MDC	pCi/L	1.4	1.1	0.88	1.3
Thorium 230	pCi/L	-0.03	0.02	-0.03	-0.1
Thorium 230 precision (±)	pCi/L	0.1	0.1	0.5	0.6
Thorium 230 MDC	pCi/L	0.2	0.3	1.2	
A/C Balance (± 5)	%	-2.87	-6.89	-1.97	3.96
Anions	meq/L	78.6	86.9	77.3	77.2
Cations	meq/L	74.2	75.7	74.3	83.6
Solids, Total Dissolved Calculated	mg/L	4750	5180	4680	4870
TDS Balance (0.80 - 1.20)		1.09	0.990	1.10	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.**

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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:		10/5/2009	7/7/2009	4/7/2009	1/13/2009
Receive Date:		10/9/2009	7/10/2009	4/10/2009	1/16/2009
Report Date:		11/19/2009	8/25/2009	6/3/2009	3/17/2009
Analyte	Units	C09100421-009	C09070417-013	C09040397-013	C09010567-012
Bicarbonate as HCO3	mg/L	707	670	737	664
Calcium	mg/L	514	518	527	563
Chloride	mg/L	124	119	124	113
Magnesium	mg/L	469	453	486	496
Nitrogen, Ammonia as N	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	30.1	25	32.0	35.5
Potassium	mg/L	11	11	11	12
Sodium	mg/L	218	215	236	241
Sulfate	mg/L	2990	2840	2760	2730
pH	s.u.	7.80	7.11	6.92	6.84
Solids, Total Dissolved TDS @ 180 C	mg/L	5060	5050	5160	5140
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	0.58	0.60	0.58	0.59
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	0.0406	0.0370	0.0467	0.0387
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)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.4	1.1	0.8	1.6
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.4	0.5	0.4
Gross Alpha minus Rn & U MDC	pCi/L	0.7	0.3	0.6	0.3
Lead 210	pCi/L	1.9	0.2	-0.8	-0.6
Lead 210 precision (±)	pCi/L	3.6	1.6	1.6	2.6
Lead 210 MDC	pCi/L	6.0	2.6	2.8	4.3
Radium 226	pCi/L	0.68	0.61	0.41	0.25
Radium 226 precision (±)	pCi/L	0.22	0.15	0.16	0.13
Radium 226 MDC	pCi/L	0.17	0.10	0.17	0.16
Radium 228	pCi/L	0.71	1.4	0.45	0.72
Radium 228 precision (±)	pCi/L	1.1	0.78	0.58	0.79
Radium 228 MDC	pCi/L	1.7	1.2	0.94	1.3
Thorium 230	pCi/L	0.09	0.3	0.2	0.1
Thorium 230 precision (±)	pCi/L	0.1	0.3	0.3	0.6
Thorium 230 MDC	pCi/L	0.2	0.3	0.6	
A/C Balance (± 5)	%	-3.62	-1.70	1.07	4.15
Anions	meq/L	79.5	75.2	75.2	73.4
Cations	meq/L	74.0	72.7	76.9	79.7
Solids, Total Dissolved Calculated	mg/L	4820	4610	4650	4650
TDS Balance (0.80 - 1.20)		1.05	1.10	1.11	1.11
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C09070417-013
Client Sample ID: EPA-28 Duplicate

Report Date: 08/19/09
Collection Date: 07/07/09 10:55
DateReceived: 07/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	670	mg/L		1		A2320 B	07/13/09 16:38 / ljl
Calcium	518	mg/L		1		E200.7	07/29/09 14:42 / cp
Chloride	119	mg/L		1		A4500-Cl B	08/03/09 15:24 / jal
Magnesium	453	mg/L		1		E200.7	07/29/09 14:42 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	07/14/09 15:13 / jal
Nitrogen, Nitrate+Nitrite as N	25	mg/L	D	2		E353.2	07/24/09 10:40 / jal
Potassium	11	mg/L		1		E200.7	07/29/09 14:42 / cp
Sodium	215	mg/L		1		E200.7	07/29/09 14:42 / cp
Sulfate	2840	mg/L	D	60		A4500-SO4 E	08/03/09 15:40 / kre
PHYSICAL PROPERTIES							
pH	7.11	s.u.		0.01		A4500-H B	07/13/09 15:03 / tlb
Solids, Total Dissolved TDS @ 180 C	5050	mg/L		10		A2540 C	07/14/09 16:27 / emm
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/17/09 18:04 / sml
Beryllium	ND	mg/L		0.01		E200.8	07/17/09 18:04 / sml
Cadmium	ND	mg/L		0.005		E200.8	07/13/09 17:57 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/17/09 18:04 / sml
Lead	ND	mg/L		0.05		E200.8	07/13/09 17:57 / ts
Manganese	0.60	mg/L		0.01		E200.8	07/17/09 18:04 / sml
Molybdenum	ND	mg/L		0.1		E200.8	07/13/09 17:57 / ts
Nickel	ND	mg/L		0.05		E200.8	07/17/09 18:04 / sml
Uranium	0.0370	mg/L		0.0003		E200.8	07/13/09 17:57 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/17/09 18:04 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/23/09 14:13 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/03/09 14:44 / aae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.1	pCi/L				E900.1	07/27/09 14:00 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	07/27/09 14:00 / cgr
Gross Alpha minus Rn & U MDC	0.3	pCi/L				E900.1	07/27/09 14:00 / cgr
Lead 210	0.2	pCi/L	U			E909.0M	07/20/09 10:30 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	07/20/09 10:30 / dm
Lead 210 MDC	2.6	pCi/L				E909.0M	07/20/09 10:30 / dm
Radium 226	0.61	pCi/L				E903.0	07/28/09 17:42 / jah
Radium 226 precision (±)	0.15	pCi/L				E903.0	07/28/09 17:42 / jah
Radium 226 MDC	0.10	pCi/L				E903.0	07/28/09 17:42 / jah
Radium 228	1.4	pCi/L				RA-05	07/23/09 11:51 / plj
Radium 228 precision (±)	0.78	pCi/L				RA-05	07/23/09 11:51 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	07/23/09 11:51 / 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 interference.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C09070417-013
Client Sample ID: EPA-28 Duplicate

Report Date: 08/19/09
Collection Date: 07/07/09 10:55
DateReceived: 07/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.3	pCi/L	U			E907.0	07/23/09 08:11 / dmf
Thorium 230 precision (±)	0.3	pCi/L				E907.0	07/23/09 08:11 / dmf
Thorium 230 MDC	0.3	pCi/L				E907.0	07/23/09 08:11 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.70	%				Calculation	08/04/09 12:39 / kbh
Anions	75.2	meq/L				Calculation	08/04/09 12:39 / kbh
Cations	72.7	meq/L				Calculation	08/04/09 12:39 / kbh
Solids, Total Dissolved Calculated	4610	mg/L				Calculation	08/04/09 12:39 / kbh
TDS Balance (0.80 - 1.20)	1.10					Calculation	08/04/09 12:39 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/14/09 03:07 / jlr
Bromoform	ND	ug/L		0.50		E624	07/14/09 03:07 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	07/14/09 03:07 / jlr
Chloroform	ND	ug/L		0.50		E624	07/14/09 03:07 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/14/09 03:07 / jlr
Surr: 1,2-Dichlorobenzene-d4	122	%REC	S	80-120		E624	07/14/09 03:07 / jlr
Surr: Dibromofluoromethane	109	%REC		80-120		E624	07/14/09 03:07 / jlr
Surr: p-Bromofluorobenzene	95.0	%REC		80-120		E624	07/14/09 03:07 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	07/14/09 03:07 / jlr

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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C09100421-009
Client Sample ID: EPA-28 Duplicate

Report Date: 11/20/09
Collection Date: 10/05/09 15:10
DateReceived: 10/09/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	707	mg/L		1		A2320 B	10/12/09 16:23 / dvg
Calcium	514	mg/L		1		E200.7	10/23/09 13:42 / cp
Chloride	124	mg/L		1		A4500-Cl B	10/12/09 10:49 / lr
Magnesium	469	mg/L		1		E200.7	10/23/09 13:42 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/15/09 12:23 / jal
Nitrogen, Nitrate+Nitrite as N	30.1	mg/L	D	0.8		E353.2	10/16/09 16:08 / jal
Potassium	11	mg/L		1		E200.7	10/23/09 13:42 / cp
Sodium	218	mg/L		1		E200.7	10/23/09 13:42 / cp
Sulfate	2990	mg/L	D	60		A4500-SO4 E	10/12/09 16:29 / lr
PHYSICAL PROPERTIES							
pH	7.80	s.u.		0.01		A4500-H B	10/13/09 15:06 / th
Solids, Total Dissolved TDS @ 180 C	5060	mg/L		10		A2540 C	10/12/09 09:15 / th
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/20/09 14:57 / sml
Beryllium	ND	mg/L		0.01		E200.8	10/14/09 11:12 / sml
Cadmium	ND	mg/L		0.005		E200.8	10/14/09 11:12 / sml
Cobalt	ND	mg/L		0.01		E200.8	10/14/09 11:12 / sml
Lead	ND	mg/L		0.05		E200.8	10/14/09 11:12 / sml
Manganese	0.58	mg/L		0.01		E200.8	10/14/09 11:12 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/14/09 11:12 / sml
Nickel	ND	mg/L		0.05		E200.8	10/14/09 11:12 / sml
Uranium	0.0406	mg/L		0.0003		E200.8	10/14/09 11:12 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/14/09 11:12 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	10/19/09 15:09 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/13/09 13:18 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.4	pCi/L	U			E900.1	11/09/09 15:29 / cgr
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	11/09/09 15:29 / cgr
Gross Alpha minus Rn & U MDC	0.7	pCi/L				E900.1	11/09/09 15:29 / cgr
Lead 210	1.9	pCi/L	U			E909.0M	11/10/09 13:04 / dpb
Lead 210 precision (±)	3.6	pCi/L				E909.0M	11/10/09 13:04 / dpb
Lead 210 MDC	6.0	pCi/L				E909.0M	11/10/09 13:04 / dpb
Radium 226	0.68	pCi/L				E903.0	11/05/09 14:30 / trs
Radium 226 precision (±)	0.22	pCi/L				E903.0	11/05/09 14:30 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	11/05/09 14:30 / trs
Radium 228	0.71	pCi/L	U			RA-05	10/29/09 09:38 / plj
Radium 228 precision (±)	1.1	pCi/L				RA-05	10/29/09 09:38 / plj
Radium 228 MDC	1.7	pCi/L				RA-05	10/29/09 09:38 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C09100421-009
Client Sample ID: EPA-28 Duplicate

Report Date: 11/20/09
Collection Date: 10/05/09 15:10
DateReceived: 10/09/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.09	pCi/L	U			E907.0	10/30/09 12:56 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/30/09 12:56 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	10/30/09 12:56 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.62	%				Calculation	10/26/09 10:50 / kbh
Anions	79.5	meq/L				Calculation	10/26/09 10:50 / kbh
Cations	74.0	meq/L				Calculation	10/26/09 10:50 / kbh
Solids, Total Dissolved Calculated	4820	mg/L				Calculation	10/26/09 10:50 / kbh
TDS Balance (0.80 - 1.20)	1.05					Calculation	10/26/09 10:50 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/13/09 02:07 / jlr
Bromoform	ND	ug/L		0.50		E624	10/13/09 02:07 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/13/09 02:07 / jlr
Chloroform	ND	ug/L		0.50		E624	10/13/09 02:07 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/13/09 02:07 / jlr
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		E624	10/13/09 02:07 / jlr
Surr: Dibromofluoromethane	111	%REC		80-120		E624	10/13/09 02:07 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	10/13/09 02:07 / jlr
Surr: Toluene-d8	90.0	%REC		80-120		E624	10/13/09 02:07 / jlr

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

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UNC Mining and Milling ChurchRock Operations
GroundWater Monitoring Summary: Zone 1 Monitor Wells

Well ID:		EPA-2	EPA-2	EPA-2	EPA-2
Collection Date:		10/12/2009	7/13/2009	4/13/2009	1/13/2009
Receive Date:		10/15/2009	7/17/2009	4/17/2009	1/16/2009
Report Date:		11/20/2009	8/25/2009	6/4/2009	3/17/2009
Analyte	Units	C09100635-004	C09070725-004	C09040592-004	C09010565-001
Bicarbonate as HCO3	mg/L	318	326	309	286
Calcium	mg/L	360	343	336	378
Chloride	mg/L	21	22	17	17
Magnesium	mg/L	158	149	153	173
Nitrogen, Ammonia as N	mg/L	0.42	0.39	0.29	0.28
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	6	6	6	6
Sodium	mg/L	192	197	198	212
Sulfate	mg/L	1670	1720	1700	1750
pH	s.u.	7.31	7.22	6.91	6.98
Solids, Total Dissolved TDS @ 180 C	mg/L	2830	2690	2610	2750
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	1.44	1.34	1.21	1.40
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	0.0019	0.0013	0.0019	0.0017
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)	ND(0.001)	ND(0.001)	0.002
Gross Alpha minus Rn & U	pCi/L	2.0	2.8	1	3.7
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.7	0.6	0.4	1
Gross Alpha minus Rn & U MDC	pCi/L	0.8	0.5	0.6	1
Lead 210	pCi/L	1.1	1.1	0.2	-3
Lead 210 precision (±)	pCi/L	2.4	1.4	2.1	2.4
Lead 210 MDC	pCi/L	4.0	2.4	3.6	4.0
Radium 226	pCi/L	1.1	1.3	1.1	1.1
Radium 226 precision (±)	pCi/L	0.22	0.19	0.24	0.23
Radium 226 MDC	pCi/L	0.18	0.09	0.15	0.19
Radium 228	pCi/L	3.1	3.0	2.2	2.3
Radium 228 precision (±)	pCi/L	0.77	0.90	0.77	0.82
Radium 228 MDC	pCi/L	1.1	1.3	1.1	1.2
Thorium 230	pCi/L	-0.02	-0.01	-0.1	0.3
Thorium 230 precision (±)	pCi/L	0.09	0.1	0.2	0.8
Thorium 230 MDC	pCi/L	0.2	0.3	0.7	
A/C Balance (± 5)	%	-1.30	-4.58	-3.57	1.15
Anions	meq/L	40.5	41.8	41.0	41.5
Cations	meq/L	39.5	38.1	38.1	42.5
Solids, Total Dissolved Calculated	mg/L	2590	2630	2590	2710
TDS Balance (0.80 - 1.20)		1.09	1.02	1.01	1.01
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.**

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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:		10/12/2009	7/13/2009	4/13/2009	1/13/2009
Receive Date:		10/15/2009	7/17/2009	4/17/2009	1/16/2009
Report Date:		11/20/2009	8/25/2009	6/4/2009	3/17/2009
Analyte:	Units	C09100635-005	C09070725-005	C09040592-005	C09010565-002
Bicarbonate as HCO3	mg/L	331	332	347	337
Calcium	mg/L	351	353	321	377
Chloride	mg/L	24	17	16	14
Magnesium	mg/L	164	156	146	174
Nitrogen, Ammonia as N	mg/L	0.45	0.46	0.31	0.28
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	6	6	6	6
Sodium	mg/L	198	199	190	211
Sulfate	mg/L	1620	1720	1610	1560
pH	s.u.	7.20	7.09	6.84	6.96
Solids, Total Dissolved TDS @ 180 C	mg/L	2790	2770	2640	2800
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(0.04)	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	1.49	1.34	1.26	1.51
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	0.0016	0.0012	0.0018	0.0015
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)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	2.0	3.0	1.0	3.4
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.7	0.7	0.5	1
Gross Alpha minus Rn & U MDC	pCi/L	0.8	0.5	0.6	1
Lead 210	pCi/L	1.1	-0.4	1.2	-2
Lead 210 precision (±)	pCi/L	2.4	1.4	2.1	2.4
Lead 210 MDC	pCi/L	4.1	2.4	3.6	4.0
Radium 226	pCi/L	1.1	1.4	1.4	1.2
Radium 226 precision (±)	pCi/L	0.23	0.20	0.27	0.23
Radium 226 MDC	pCi/L	0.18	0.09	0.15	0.18
Radium 228	pCi/L	3.0	2.8	3.0	3.3
Radium 228 precision (±)	pCi/L	0.78	0.89	0.79	0.86
Radium 228 MDC	pCi/L	1.1	1.3	1.1	1.2
Thorium 230	pCi/L	0.06	0.02	-0.03	-0.1
Thorium 230 precision (±)	pCi/L	0.1	0.09	0.1	0.7
Thorium 230 MDC	pCi/L	0.2	0.2	0.4	
A/C Balance (± 5)	%	-0.139	-3.04	-4.30	4.98
Anions	meq/L	39.9	41.7	39.7	38.5
Cations	meq/L	39.8	39.3	36.4	42.5
Solids, Total Dissolved Calculated	mg/L	2560	2650	2490	2550
TDS Balance (0.80 - 1.20)		1.09	1.05	1.06	1.10
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070725-005
Client Sample ID: EPA-2 Duplicate

Report Date: 08/24/09
Collection Date: 07/13/09 12:15
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	332	mg/L		1		A2320 B	07/21/09 17:08 / ljl
Calcium	353	mg/L		1		E200.7	07/30/09 16:21 / cp
Chloride	17	mg/L		1		A4500-Cl B	07/21/09 15:04 / ja
Magnesium	156	mg/L		1		E200.7	07/30/09 16:21 / cp
Nitrogen, Ammonia as N	0.46	mg/L		0.05		A4500-NH3 G	07/21/09 13:47 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	07/22/09 15:09 / jal
Potassium	6	mg/L		1		E200.7	07/30/09 16:21 / cp
Sodium	199	mg/L		1		E200.7	07/30/09 16:21 / cp
Sulfate	1720	mg/L	D	60		A4500-SO4 E	07/24/09 13:09 / jal
PHYSICAL PROPERTIES							
pH	7.09	s.u.	H	0.01		A4500-H B	07/21/09 16:14 / tlb
Solids, Total Dissolved TDS @ 180 C	2770	mg/L	H	10		A2540 C	07/22/09 15:36 / emm
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	07/21/09 20:19 / ts
Beryllium	ND	mg/L		0.01		E200.8	07/21/09 20:19 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/21/09 20:19 / ts
Cobalt	ND	mg/L		0.01		E200.8	07/21/09 20:19 / ts
Lead	ND	mg/L		0.05		E200.8	07/21/09 20:19 / ts
Manganese	1.34	mg/L		0.01		E200.8	07/21/09 20:19 / ts
Molybdenum	ND	mg/L		0.1		E200.8	07/21/09 20:19 / ts
Nickel	ND	mg/L		0.05		E200.8	07/21/09 20:19 / ts
Uranium	0.0012	mg/L		0.0003		E200.8	07/21/09 20:19 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/21/09 20:19 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/30/09 17:20 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/04/09 13:26 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	3.0	pCi/L				E900.1	08/03/09 17:11 / cgr
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	08/03/09 17:11 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	08/03/09 17:11 / cgr
Lead 210	-0.4	pCi/L	U			E909.0M	08/29/09 08:45 / dm
Lead 210 precision (±)	1.4	pCi/L				E909.0M	08/29/09 08:45 / dm
Lead 210 MDC	2.4	pCi/L				E909.0M	08/29/09 08:45 / dm
Radium 226	1.4	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 226 precision (±)	0.20	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 226 MDC	0.09	pCi/L				E903.0	08/04/09 15:24 / jah
Radium 228	2.8	pCi/L				RA-05	07/28/09 15:51 / plj
Radium 228 precision (±)	0.89	pCi/L				RA-05	07/28/09 15:51 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	07/28/09 15:51 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09070725-005
Client Sample ID: EPA-2 Duplicate

Report Date: 08/24/09
Collection Date: 07/13/09 12:15
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.02	pCi/L	U			E907.0	08/03/09 12:10 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	08/03/09 12:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	08/03/09 12:10 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.04	%				Calculation	07/31/09 10:46 / kbh
Anions	41.7	meq/L				Calculation	07/31/09 10:46 / kbh
Cations	39.3	meq/L				Calculation	07/31/09 10:46 / kbh
Solids, Total Dissolved Calculated	2650	mg/L				Calculation	07/31/09 10:46 / kbh
TDS Balance (0.80 - 1.20)	1.05					Calculation	07/31/09 10:46 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/23/09 18:43 / jlr
Bromoform	ND	ug/L		0.50		E624	07/23/09 18:43 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	07/23/09 18:43 / jlr
Chloroform	ND	ug/L		0.50		E624	07/23/09 18:43 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/23/09 18:43 / jlr
Surr: 1,2-Dichlorobenzene-d4	110	%REC		80-120		E624	07/23/09 18:43 / jlr
Surr: Dibromofluoromethane	99.0	%REC		80-120		E624	07/23/09 18:43 / jlr
Surr: p-Bromofluorobenzene	102	%REC		80-120		E624	07/23/09 18:43 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	07/23/09 18:43 / jlr

Report Definitions:
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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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09100635-005
Client Sample ID: EPA-2 Duplicate

Report Date: 11/20/09
Collection Date: 10/12/09 11:55
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	331	mg/L		1		A2320 B	10/19/09 21:00 / dvg
Calcium	351	mg/L		1		E200.7	10/22/09 17:56 / cp
Chloride	24	mg/L		1		A4500-Cl B	10/19/09 11:42 / lr
Magnesium	164	mg/L		1		E200.7	10/22/09 17:56 / cp
Nitrogen, Ammonia as N	0.45	mg/L		0.05		A4500-NH3 G	10/16/09 12:18 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/20/09 13:26 / jal
Potassium	6	mg/L		1		E200.7	10/22/09 17:56 / cp
Sodium	198	mg/L		1		E200.7	10/22/09 17:56 / cp
Sulfate	1620	mg/L	D	60		A4500-SO4 E	10/16/09 13:44 / lr
PHYSICAL PROPERTIES							
pH	7.20	s.u.		0.01		A4500-H B	10/16/09 12:28 / th
Solids, Total Dissolved TDS @ 180 C	2790	mg/L		10		A2540 C	10/19/09 09:18 / kre
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	10/19/09 13:24 / ts
Beryllium	ND	mg/L		0.01		E200.8	10/19/09 13:24 / ts
Cadmium	ND	mg/L		0.005		E200.8	10/19/09 13:24 / ts
Cobalt	ND	mg/L		0.01		E200.8	10/19/09 13:24 / ts
Lead	ND	mg/L		0.05		E200.8	10/19/09 13:24 / ts
Manganese	1.49	mg/L		0.01		E200.8	10/19/09 13:24 / ts
Molybdenum	ND	mg/L		0.1		E200.8	10/19/09 13:24 / ts
Nickel	ND	mg/L		0.05		E200.8	10/19/09 13:24 / ts
Uranium	0.0016	mg/L		0.0003		E200.8	10/19/09 13:24 / ts
Vanadium	ND	mg/L		0.1		E200.8	10/19/09 13:24 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	10/29/09 14:08 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/09 14:31 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.0	pCi/L				E900.1	11/12/09 14:21 / cgr
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	11/12/09 14:21 / cgr
Gross Alpha minus Rn & U MDC	0.8	pCi/L				E900.1	11/12/09 14:21 / cgr
Lead 210	1.1	pCi/L	U			E909.0M	11/11/09 06:41 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	11/11/09 06:41 / dm
Lead 210 MDC	4.1	pCi/L				E909.0M	11/11/09 06:41 / dm
Radium 226	1.1	pCi/L				E903.0	11/09/09 14:34 / jah
Radium 226 precision (±)	0.23	pCi/L				E903.0	11/09/09 14:34 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	11/09/09 14:34 / jah
Radium 228	3.0	pCi/L				RA-05	11/03/09 13:43 / plj
Radium 228 precision (±)	0.78	pCi/L				RA-05	11/03/09 13:43 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	11/03/09 13:43 / 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 interference.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C09100635-005
Client Sample ID: EPA-2 Duplicate

Report Date: 11/20/09
Collection Date: 10/12/09 11:55
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.06	pCi/L	U			E907.0	10/31/09 17:13 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/31/09 17:13 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	10/31/09 17:13 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-0.139	%				Calculation	10/23/09 09:21 / kbh
Anions	39.9	meq/L				Calculation	10/23/09 09:21 / kbh
Cations	39.8	meq/L				Calculation	10/23/09 09:21 / kbh
Solids, Total Dissolved Calculated	2560	mg/L				Calculation	10/23/09 09:21 / kbh
TDS Balance (0.80 - 1.20)	1.09					Calculation	10/23/09 09:21 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/19/09 18:10 / jlr
Bromoform	ND	ug/L		0.50		E624	10/19/09 18:10 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/19/09 18:10 / jlr
Chloroform	ND	ug/L		0.50		E624	10/19/09 18:10 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/19/09 18:10 / jlr
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		E624	10/19/09 18:10 / jlr
Surr: Dibromofluoromethane	125	%REC	S	80-120		E624	10/19/09 18:10 / jlr
Surr: p-Bromofluorobenzene	92.0	%REC		80-120		E624	10/19/09 18:10 / jlr
Surr: Toluene-d8	92.0	%REC		80-120		E624	10/19/09 18:10 / 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.

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UNC Mining and Milling ChurchRock Operations
GroundWater Monitoring Summary: Zone 3 Monitor Wells

Well ID:		711	711	711	711
Collection Date:		10/12/2009	7/13/2009	1/19/2009	10/13/2008
Receive Date:		10/15/2009	7/17/2009	1/23/2009	10/17/2008
Report Date:		11/30/2009	9/9/2009	3/18/2009	11/20/2008
Analyte	Units	C09100637-003	C09070701-002	C09040593-003	C09010817-003
Bicarbonate as HCO3	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	480	478	445	493
Chloride	mg/L	19	31	16	14
Magnesium	mg/L	472	458	455	499
Nitrogen, Ammonia as N	mg/L	0.47	0.32	0.27	0.31
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	11	10	9	11
Sodium	mg/L	100	92	96	101
Sulfate	mg/L	3620	3560	3410	3350
pH	s.u.	4.07	3.21	3.20	3.34
Solids, Total Dissolved TDS @ 180 C	mg/L	4960	4940	5020	5050
Aluminum	mg/L	0.3	0.3	0.3	0.3
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	0.32	0.32	0.33	0.32
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	5.77	5.92	5.78	5.81
Molybdenum	mg/L	0.2	0.1	0.1	0.1
Nickel	mg/L	0.30	0.29	0.30	0.32
Uranium	mg/L	0.0167	0.0169	0.0161	0.0175
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)	0.008	0.008
Selenium-IV	mg/L	ND(0.001)	0.004	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	7.0	9.3	8.7	7.0
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.3	1.1	1.0	1.3
Gross Alpha minus Rn & U MDC	pCi/L	0.9	0.4	0.4	0.9
Lead 210	pCi/L	1.5	1.4	-1	0.8
Lead 210 precision (±)	pCi/L	2.2	1.9	2.1	6.7
Lead 210 MDC	pCi/L	3.7	3.2	3.6	11.3
Radium 226	pCi/L	4.0	4.3	3.6	4.0
Radium 226 precision (±)	pCi/L	0.42	0.41	0.34	0.40
Radium 226 MDC	pCi/L	0.20	0.19	0.15	0.21
Radium 228	pCi/L	12	12	10	13
Radium 228 precision (±)	pCi/L	1.2	1.1	0.94	1.1
Radium 228 MDC	pCi/L	1.2	1.1	0.95	1.2
Thorium 230	pCi/L	0.04	0.08	0.9	-0.1
Thorium 230 precision (±)	pCi/L	0.08	0.2	0.4	0.3
Thorium 230 MDC	pCi/L	0.1	0.4	0.3	
A/C Balance (± 5)	%	-3.01	-4.54	-2.30	2.86
Anions	meq/L	75.9	74.9	71.5	70.2
Cations	meq/L	71.5	68.4	68.3	74.3
Solids, Total Dissolved Calculated	mg/L	4710	4640	4440	4470
TDS Balance (0.80 - 1.20)		1.05	1.06	1.13	1.13
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.

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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:		10/12/2009	7/13/2009	4/13/2009	1/19/2009
Receive Date:		10/15/2009	7/17/2009	4/17/2009	1/23/2009
Report Date:		11/30/2009	9/9/2009	6/4/2009	3/18/2009
Analyte	Units	C09100637-004	C09070701-003	C09040593-004	C09010817-004
Bicarbonate as HCO3	mg/L	3	1	11	6
Calcium	mg/L	489	482	484	506
Chloride	mg/L	16	17	13	12
Magnesium	mg/L	475	453	481	517
Nitrogen, Ammonia as N	mg/L	0.41	0.32	0.30	0.21
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	11	11	11	11
Sodium	mg/L	94	93	104	102
Sulfate	mg/L	3550	3440	3440	3320
pH	s.u.	5.26	4.82	4.82	5.15
Solids, Total Dissolved TDS @ 180 C	mg/L	4890	4990	4960	5070
Aluminum	mg/L	0.4	0.2	0.3	0.3
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	0.32	0.32	0.33	0.33
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	5.70	5.56	5.82	5.89
Molybdenum	mg/L	0.2	0.1	0.2	0.2
Nickel	mg/L	0.29	0.28	0.31	0.32
Uranium	mg/L	0.0161	0.0150	0.0159	0.0170
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	ND(0.001)	0.013	0.008
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	8.2	7.2	10.3	8.7
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.4	1	1.1	1.4
Gross Alpha minus Rn & U MDC	pCi/L	0.9	0.4	0.4	0.9
Lead 210	pCi/L	1.9	-0.2	-1	1.1
Lead 210 precision (±)	pCi/L	2.2	1.9	2.1	3.4
Lead 210 MDC	pCi/L	3.7	3.2	3.6	5.6
Radium 226	pCi/L	4.8	3.9	3.7	4.7
Radium 226 precision (±)	pCi/L	0.45	0.40	0.35	0.42
Radium 226 MDC	pCi/L	0.20	0.19	0.15	0.20
Radium 228	pCi/L	11	12	12	13
Radium 228 precision (±)	pCi/L	1.1	1.1	1.0	1.1
Radium 228 MDC	pCi/L	1.2	1.1	0.98	1.2
Thorium 230	pCi/L	0.05	-0.08	0.6	0.0
Thorium 230 precision (±)	pCi/L	0.1	0.2	0.3	0.3
Thorium 230 MDC	pCi/L	0.2	0.5	0.3	
A/C Balance (± 5)	%	-4.56	-4.63	-2.61	2.13
Anions	meq/L	74.4	72.1	72.2	69.5
Cations	meq/L	67.9	65.7	68.6	72.5
Solids, Total Dissolved Calculated	mg/L	4650	4500	4550	4470
TDS Balance (0.80 - 1.20)		1.05	1.11	1.09	1.13
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09070701-003
Client Sample ID: 711 Duplicate

Report Date: 09/09/09
Collection Date: 07/13/09 15:40
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	1	mg/L		1		A2320 B	07/20/09 21:14 / ljl
Calcium	482	mg/L	D	2		E200.7	07/31/09 18:33 / cp
Chloride	17	mg/L		1		A4500-Cl B	08/03/09 15:38 / jal
Magnesium	453	mg/L		1		E200.7	07/31/09 18:33 / cp
Nitrogen, Ammonia as N	0.32	mg/L		0.05		E350.1	07/21/09 11:47 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	07/21/09 12:57 / eli-b
Potassium	11	mg/L		1		E200.7	07/31/09 18:33 / cp
Sodium	93	mg/L	D	2		E200.7	07/31/09 18:33 / cp
Sulfate	3440	mg/L	D	60		A4500-SO4 E	08/03/09 16:01 / kre
PHYSICAL PROPERTIES							
pH	4.82	s.u.		0.01		A4500-H B	07/20/09 13:49 / tlb
Solids, Total Dissolved TDS @ 180 C	4990	mg/L	H	10		A2540 C	07/21/09 11:28 / emm
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	07/21/09 18:51 / ts
Beryllium	ND	mg/L		0.01		E200.8	07/21/09 18:51 / ts
Cadmium	ND	mg/L		0.005		E200.8	07/21/09 18:51 / ts
Cobalt	0.32	mg/L		0.01		E200.8	07/21/09 18:51 / ts
Lead	ND	mg/L		0.05		E200.8	07/21/09 18:51 / ts
Manganese	5.56	mg/L		0.01		E200.8	07/21/09 18:51 / ts
Molybdenum	0.1	mg/L		0.1		E200.8	07/21/09 18:51 / ts
Nickel	0.28	mg/L		0.05		E200.8	07/21/09 18:51 / ts
Uranium	0.0150	mg/L		0.0003		E200.8	07/21/09 18:51 / ts
Vanadium	ND	mg/L		0.1		E200.8	07/21/09 18:51 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	07/23/09 15:27 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	08/04/09 12:19 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	7.2	pCi/L				E900.1	07/31/09 14:53 / cgr
Gross Alpha minus Rn & U Precision (±)	1	pCi/L				E900.1	07/31/09 14:53 / cgr
Gross Alpha minus Rn & U MDC	0.4	pCi/L				E900.1	07/31/09 14:53 / cgr
Lead 210	-0.2	pCi/L	U			E909.0M	07/27/09 10:00 / dm
Lead 210 precision (±)	1.9	pCi/L				E909.0M	07/27/09 10:00 / dm
Lead 210 MDC	3.2	pCi/L				E909.0M	07/27/09 10:00 / dm
Radium 226	3.9	pCi/L				E903.0	08/28/09 09:20 / trs
Radium 226 precision (±)	0.40	pCi/L				E903.0	08/28/09 09:20 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	08/28/09 09:20 / trs
Radium 228	12	pCi/L				RA-05	08/20/09 10:24 / plj
Radium 228 precision (±)	1.1	pCi/L				RA-05	08/20/09 10:24 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	08/20/09 10:24 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09070701-003
Client Sample ID: 711 Duplicate

Report Date: 09/09/09
Collection Date: 07/13/09 15:40
DateReceived: 07/17/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.08	pCi/L	U			E907.0	08/03/09 12:10 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E907.0	08/03/09 12:10 / dmf
Thorium 230 MDC	0.5	pCi/L				E907.0	08/03/09 12:10 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.63	%				Calculation	08/04/09 12:43 / kbh
Anions	72.1	meq/L				Calculation	08/04/09 12:43 / kbh
Cations	65.7	meq/L				Calculation	08/04/09 12:43 / kbh
Solids, Total Dissolved Calculated	4500	mg/L				Calculation	08/04/09 12:43 / kbh
TDS Balance (0.80 - 1.20)	1.11					Calculation	08/04/09 12:43 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	07/22/09 14:52 / jlr
Bromoform	ND	ug/L		0.50		E624	07/22/09 14:52 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	07/22/09 14:52 / jlr
Chloroform	ND	ug/L		0.50		E624	07/22/09 14:52 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	07/22/09 14:52 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	07/22/09 14:52 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	07/22/09 14:52 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	07/22/09 14:52 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	07/22/09 14:52 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09100637-004
Client Sample ID: 711 Duplicate

Report Date: 11/30/09
Collection Date: 10/12/09 14:55
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	3	mg/L		1		A2320 B	10/19/09 21:43 / dvg
Calcium	489	mg/L	D	2		E200.7	11/03/09 11:04 / cp
Chloride	16	mg/L	H	1		A4500-Cl B	11/25/09 13:43 / jal
Magnesium	475	mg/L		1		E200.7	11/03/09 11:04 / cp
Nitrogen, Ammonia as N	0.41	mg/L		0.05		A4500-NH3 G	10/16/09 12:32 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/20/09 13:44 / jal
Potassium	11	mg/L		1		E200.7	11/03/09 11:04 / cp
Sodium	94	mg/L	D	2		E200.7	11/03/09 11:04 / cp
Sulfate	3550	mg/L	D	60		A4500-SO4 E	10/16/09 14:00 / lr
PHYSICAL PROPERTIES							
pH	5.26	s.u.		0.01		A4500-H B	10/21/09 11:52 / ljl
Solids, Total Dissolved TDS @ 180 C	4890	mg/L	H	10		A2540 C	10/22/09 11:12 / kre
METALS - TOTAL							
Aluminum	0.4	mg/L		0.1		E200.8	10/19/09 16:01 / ts
Beryllium	ND	mg/L		0.01		E200.8	10/19/09 16:01 / ts
Cadmium	ND	mg/L		0.005		E200.8	10/19/09 16:01 / ts
Cobalt	0.32	mg/L		0.01		E200.8	10/19/09 16:01 / ts
Lead	ND	mg/L		0.05		E200.8	10/19/09 16:01 / ts
Manganese	5.70	mg/L		0.01		E200.8	10/19/09 16:01 / ts
Molybdenum	0.2	mg/L		0.1		E200.8	10/19/09 16:01 / ts
Nickel	0.29	mg/L		0.05		E200.8	10/19/09 16:01 / ts
Uranium	0.0161	mg/L		0.0003		E200.8	10/19/09 16:01 / ts
Vanadium	ND	mg/L		0.1		E200.8	10/19/09 16:01 / ts
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		E1632AM	10/29/09 15:17 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	10/27/09 14:46 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	8.2	pCi/L				E900.1	11/05/09 12:41 / cgr
Gross Alpha minus Rn & U Precision (±)	1.4	pCi/L				E900.1	11/05/09 12:41 / cgr
Gross Alpha minus Rn & U MDC	0.9	pCi/L				E900.1	11/05/09 12:41 / cgr
Lead 210	1.9	pCi/L	U			E909.0M	11/11/09 06:07 / dm
Lead 210 precision (±)	2.2	pCi/L				E909.0M	11/11/09 06:07 / dm
Lead 210 MDC	3.7	pCi/L				E909.0M	11/11/09 06:07 / dm
Radium 226	4.8	pCi/L				E903.0	11/07/09 18:32 / jah
Radium 226 precision (±)	0.45	pCi/L				E903.0	11/07/09 18:32 / jah
Radium 226 MDC	0.20	pCi/L				E903.0	11/07/09 18:32 / jah
Radium 228	11	pCi/L				RA-05	11/02/09 11:55 / plj
Radium 228 precision (±)	1.1	pCi/L				RA-05	11/02/09 11:55 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	11/02/09 11:55 / plj

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C09100637-004
Client Sample ID: 711 Duplicate

Report Date: 11/30/09
Collection Date: 10/12/09 14:55
DateReceived: 10/15/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.05	pCi/L	U			E907.0	10/31/09 17:16 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E907.0	10/31/09 17:16 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	10/31/09 17:16 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.56	%				Calculation	11/25/09 16:02 / sec
Anions	74.4	meq/L				Calculation	11/25/09 16:02 / sec
Cations	67.9	meq/L				Calculation	11/25/09 16:02 / sec
Solids, Total Dissolved Calculated	4650	mg/L				Calculation	11/25/09 16:02 / sec
TDS Balance (0.80 - 1.20)	1.05					Calculation	11/25/09 16:02 / sec
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	10/20/09 00:43 / jlr
Bromoform	ND	ug/L		0.50		E624	10/20/09 00:43 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	10/20/09 00:43 / jlr
Chloroform	ND	ug/L		0.50		E624	10/20/09 00:43 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	10/20/09 00:43 / jlr
Surr: 1,2-Dichlorobenzene-d4	113	%REC		80-120		E624	10/20/09 00:43 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	10/20/09 00:43 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	10/20/09 00:43 / jlr
Surr: Toluene-d8	91.0	%REC		80-120		E624	10/20/09 00:43 / 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

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- 5-7-2009 (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	7-6-09	0910		✓	✓	✓	✓	✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0950												K, Mg, Mn, Na, NH_4, Ni,
803		1035												NO_3, Pb, Pb-210, pH, Se,
808		1110												SO_4, TDS, Th-230, U, V,
802		1155												Chloroform, Gross
801		1230												Alpha (-) U & Rn,
GW-2		1310												Combined Ra-226 & Ra-228, Al,
GW-1		1355												Co, Mo & Total Trihalomethanes (TTHMs)
632	↓	1440										NA		
624	7-7-09	0850												
SBL-1		0935												
EPA-28		1015												
EPA-28 DUPLICATE		1055												
GW-3		1145												
EPA-25	↓	1245		↓		↓		↓		↓			↓	

Sampled by: Mel Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS - Ground
8 ICED COOLER
Method of Shipment

Received by Ronald B. [signature]
7-8-09 12:55
Date Time

7-6-09 @ 1530
7-7-09 @ 1530
Date Time
[signature]
Lab Receipt Signature
7/10/09 920
Date Time

The above analysis to be performed is authorized by:
Mel Chischilly Jr.
Signature
7-8-2009
Date

7° on ice
UPS - ARS Grnd

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- 5-7-2009 (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	7-7-09	1340		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
613	7-7-09	1430								K, Mg, Mn, Na, NH_4, Ni,
EPA-14	7-7-09	1505								NO_3, Pb, Pb-210, pH, Se,
614	7-8-09	0845								SO_4, TDS, Th-230, U, V,
515-A	7-8-09	0935								Chloroform, Gross
604	7-8-09	1030								Alpha (-) U & Rn,
FIELD BLANK	7-8-09	1130								Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N/A		

Sampled by: Mark Chischilly Jr.
Dispatched by: David [illegible]
Carrier: UPS- Ground
8 ICED COOLER
Method of Shipment

Received by Ronald B. [illegible]
7-8-09 12:55
Date Time

7-7-09 @ 1530
7-8-09 @ 1130
Date Time
[illegible]
Lab Receipt Signature
7/8/09 920
Date Time

The above analysis to be performed is authorized by:
Mark Chischilly Jr.
Signature
7-8-2009
Date

Energy Laboratories Inc
Workorder Receipt Checklist

C09070417

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 7/10/2009 9:20 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C09070425

Login completed by: Corinne Wagner

Date and Time Received: 7/10/2009 9:20 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C09070426

Login completed by: Corinne Wagner

Date and Time Received: 7/10/2009 9:20 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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

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- 6-7-2009 (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	7-13-09	0925		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-5	↓	1015		↓	↓	↓	↓		↓	K, Mg, Mn, Na, NH_4, Ni,
EPA-7	↓	1055		↓	↓	↓	↓		↓	NO_3, Pb, Pb-210, pH, Se,
EPA-2	↓	1145		↓	↓	↓	↓		↓	SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE	↓	1215		↓	↓	↓	↓		↓	Chloroform, Gross
517	↓	1250		↓	↓	↓	↓		↓	Alpha (-) U & Rn,
708	↓	1345		↓	↓	↓	↓		↓	Combined Ra-226 & Ra-228, Al,
711	↓	1445		↓	↓	↓	↓		↓	Co, Mo & Total Trihalomethanes (TTHMs)
711 DUPLICATE	↓	1540		↓	↓	↓	↓	NA	↓	
EPA-13	7-14-09	0850		↓	↓	↓	↓		↓	
504-B	↓	0930		↓	↓	↓	↓		↓	
719	↓	1025		↓	↓	↓	↓		↓	
420	↓	1105		↓	↓	↓	↓		↓	
717	↓	1145		↓	↓	↓	↓		↓	
TWQ-142	↓	1250		↓	↓	↓	↓		↓	

Sampled by: Mac Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS- Ground
7 ICED COOLER
Method of Shipment

Received by Ronald B. Sam
7-15-09 11:23
Date Time

7-13-09 @ 1615
7-14-09 @ 1600
Date Time

Andrew [signature]
Lab Receipt Signature
7/17/09 915
Date Time

The above analysis to be performed is authorized by:
Mac Chischilly Jr.
Signature
7-15-2009
Date

14C NO ICE
UPS ARS GRD.

C09070725

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- 6-7-2009 (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)
NBL-1	7-14-09	1335		✓ MC	✓ MC	✓ MC	✓ MC		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
FIELD BLANK	7-14-09	1600		✓ MC	✓ MC	✓ MC	✓ MC		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)
								NA		

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

Received by Ronald B. Sam
7-15-09 11:23
Date Time

7-14-09 @ 1600
Date Time
Andrew [illegible]
Lab Receipt Signature
7/17/09 915
Date Time

The above analysis to be performed is authorized by:
Max Chischilly Jr.
Signature
7-15-2009
Date

14C NO ICE
UPS RES GRD

C09070701

Energy Laboratories Inc
Workorder Receipt Checklist

C09070701

United Nuclear Corporation

Login completed by: Tabitha Edwards

Date and Time Received: 7/17/2009 9:15 AM

Reviewed by:

Received by: al

Reviewed Date:

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:	14°C		
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:

Metals samples were preserved with 2 mL HNO3 upon receipt to pH <2 in the laboratory. In accordance with the Clean Water Act, these samples must be held for 24 hours prior to analysis.

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C09070725

Login completed by: Corinne Wagner

Date and Time Received: 7/17/2009 9:15 AM

Reviewed by:

Received by: al

Reviewed Date:

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:	14°C		
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. EM- 3-7-2009

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	7-14-09	1225		✓					M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
NW-4		1355								
NW-1		1405								
NW-2		1415								
NW-3		1425								
NW-5		1430								
PB-2		1440								
RW-A		1450								
PB-3		1510								
PB-4		1525								

Sampled By: Mal Chischilly Jr.
Dispatched By: [illegible]
Carrier: UPS- Ground
7 ICED COOLER
Method of Shipment

Received By: Ronald B. Sam
7-15-09 11:23
Date Time

7-14-09 1600
Date Time
[illegible]
Lab Receipt Signature
7/17/09 915
Date Time

14C NO ICE
UPS ARS GRD.

The above analysis to be performed is authorized by:
Mal Chischilly Jr.
Signature
7-15-2009
Date

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C09070711

Login completed by: Edith McPike

Date and Time Received: 7/17/2009 9:15 AM

Reviewed by:

Received by: al

Reviewed Date:

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:	14°C		
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-7-10-2009 (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	10-5-09	0845		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0926								K, Mg, Mn, Na, NH_4, Ni,
801		1006								NO_3, Pb, Pb-210, pH, Se,
802		1052								SO_4, TDS, Th-230, U, V,
803		1132								Chloroform, Gross
624		1240								Alpha (-) U & Rn,
SBL-1		1353								Combined Ra-226 & Ra-228, Al,
EPA-28		1435								Co, Mo & Total Trihalomethanes (TTHMs)
EPA-28 DUPLICATE		1510						NA		
604	10-6-09	0845								
EPA-14		1010								
808		1126								
GW-2		1205								
GW-1		1248								
632		1340								

Sampled by: Mark Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS - Ground
8 Iced Cooler
Method of Shipment

Received by Ronald B. Sam
10-7-09 12:50
Date Time

10-5-09 @ 1600
10-6-09 @ 1630
Date Time
[signature]
Lab Receipt Signature
10/9/09 920
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
Oct. 7, 2009
Date

20 on ice
UPS ARS Grnd

C09100425

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- 7-10-2009 (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)
GW-3	10-6-09	1428		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-25	10-6-09	1522								K, Mg, Mn, Na, NH_4, Ni,
627	10-6-09	1613								NO_3, Pb, Pb-210, pH, Se,
614	10-7-09	0840								SO_4, TDS, Th-230, U, V,
515-A	10-7-09	0935								Chloroform, Gross
613	10-7-09	1040								Alpha (-) U & Rn,
FIELD BLANK	10-7-09	1145								Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								NA		

Sampled by: Max Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS - Ground
8 Iced Cooler
Method of Shipment

Received by Ronald B. Sam
10-7-09 12:50
Date Time

10-6-09 @ 1630
10-7-09 @ 1145
Date Time

Lab Receipt Signature
10/9/09 920
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
Oct. 7, 2009
Date

[signature] C09100405

Energy Laboratories Inc
Workorder Receipt Checklist

C09100421

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 10/9/2009 9:20 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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

Energy Laboratories Inc
Workorder Receipt Checklist

C09100423

United Nuclear Corporation

Login completed by: Corinne Wagner

Reviewed by:

Reviewed Date:

Date and Time Received: 10/9/2009 9:20 AM

Received by: ckw

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

Energy Laboratories Inc
Workorder Receipt Checklist

C09100425

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 10/9/2009 9:20 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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

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- 8-10-2009 (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	10-12-09	0900		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-5		0954								K, Mg, Mn, Na, NH_4, Ni,
EPA-7		1035								NO_3, Pb, Pb-210, pH, Se,
EPA-2		1124								SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE		1155								Chloroform, Gross
517		1230								Alpha (-) U & Rn,
708		1320								Combined Ra-226 & Ra-228, Al,
711		1412								Co, Mo & Total Trihalomethanes (TTHMs)
711 DUPLICATE		1455						N A		
EPA-13	10-13-09	0854								
504-B		0940								
719		1050								
420		1130								
717		1220								
NBL-2		1315								

Sampled by: Mark Chischilly Jr.
Dispatched by: David [illegible]
Carrier: FED EX Priority Overnight
8 ICED COOLER
Method of Shipment

Received by Ronald B. [illegible]
10-14-09 10:36
Date Time

10-12-09 @ 1600
10-13-09 @ 1710
Date Time

[illegible]
Lab Receipt Signature

10/15/09 930
Date Time

The above analysis to be performed is authorized by:
Mark Chischilly Jr.
Signature

10-14-2009
Date

4° on ice 10/15/09 930
Fed ex
M09100637

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- 8-10-2009 (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)
RW-A	10-13-09	1350		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
RW-11	↓	1410		↓	↓	↓	↓		↓	K, Mg, Mn, Na, NH_4, Ni,
TWQ-142	↓	1440		↓	↓	↓	↓		↓	NO_3, Pb, Pb-210, pH, Se,
NBL-1	↓	1515		↓	↓	↓	↓		↓	SO_4, TDS, Th-230, U, V,
PB-3	↓	1540		↓	↓	↓	↓		↓	Chloroform, Gross
PB-2	↓	1600		↓	↓	↓	↓		↓	Alpha (-) U & Rn,
FIELD BLANK	↓	1710		↓	↓	↓	↓		↓	Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N A		

Sampled by: Mary Chischilly Jr.
Dispatched by: [signature]
Carrier: FedEx Priority Overnight
8 ICED COOLER
Method of Shipment

Received by Ronald B. [signature]
10-14-09 10:37
Date Time

10-13-09 1710
Date Time
[signature]
Lab Receipt Signature
10/15/09 930
Date Time

The above analysis to be performed is authorized by:
Mary Chischilly Jr.
Signature
10-14-2009
Date

A0918037

Energy Laboratories Inc
Workorder Receipt Checklist

C09100635

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 10/15/2009 9:30 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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:	4°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

Energy Laboratories Inc
Workorder Receipt Checklist

C09100637

United Nuclear Corporation

Login completed by: Corinne Wagner

Reviewed by:

Reviewed Date:

Date and Time Received: 10/15/2009 9:30 AM

Received by: ckw

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:	4°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- 4-10-2009

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required
NW-1	10-13-09	1653		✓					M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
NW-2	↓	1625		↓					↓	
NW-3		1640								
NW-4		1610								
NW-5		1630								

Sampled By: May Chischilly Jr.
Received By: Lonell B. Sa
Dispatched By: [illegible]
10-14-09 Date 10:37 Time
10-13-09 Date 1710 Time
Lab Receipt Signature
10/15/09 Date 930 Time
The above analysis to be performed is authorized by:
May Chischilly Jr.
Signature
10-14-2009
Date

Carrier: Fed Ex Priority Overnight

8 ICED COOLER
Method of Shipment

4JCe
FEDEX
SPOS

CMAIN1-20

Energy Laboratories Inc
Workorder Receipt Checklist

C09100638

United Nuclear Corporation

Login completed by: Edith McPike

Date and Time Received: 10/15/2009 9:30 AM

Reviewed by:

Received by: ckw

Reviewed Date:

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:	4°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

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

ANALYTICAL SUMMARY REPORT

August 19, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09070417 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corp on 7/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070417-001	509-D	07/06/09 09:10	07/10/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Sample Filtering 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 Sulfate E624 Purgeable Organics
C09070417-002	EPA-23	07/06/09 09:50	07/10/09	Aqueous	Same As Above
C09070417-003	803	07/06/09 10:35	07/10/09	Aqueous	Same As Above
C09070417-004	808	07/06/09 11:10	07/10/09	Aqueous	Same As Above
C09070417-005	802	07/06/09 11:55	07/10/09	Aqueous	Same As Above
C09070417-006	801	07/06/09 12:30	07/10/09	Aqueous	Same As Above
C09070417-007	GW-2	07/06/09 13:10	07/10/09	Aqueous	Same As Above
C09070417-008	GW-1	07/06/09 13:55	07/10/09	Aqueous	Same As Above
C09070417-009	632	07/06/09 14:40	07/10/09	Aqueous	Same As Above
C09070417-010	624	07/07/09 08:50	07/10/09	Aqueous	Same As Above
C09070417-011	SBL-1	07/07/09 09:35	07/10/09	Aqueous	Same As Above
C09070417-012	EPA-28	07/07/09 10:15	07/10/09	Aqueous	Same As Above
C09070417-013	EPA-28 Duplicate	07/07/09 10:55	07/10/09	Aqueous	Same As Above
C09070417-014	GW-3	07/07/09 11:45	07/10/09	Aqueous	Same As Above
C09070417-015	EPA-25	07/07/09 12:45	07/10/09	Aqueous	Same As Above
C09070417-016	627	07/07/09 13:40	07/10/09	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By:

Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Alluvium
Sample Delivery Group: C09070417

Date: *19-Aug-09*

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.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R120777
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090713A				07/13/09 11:39
Alkalinity, Total as CaCO3		4	mg/L	0.2						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_090713A				07/13/09 11:54
Alkalinity, Total as CaCO3		199	mg/L	5.0	97	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090713A				07/13/09 12:01
Alkalinity, Total as CaCO3		51.4	mg/L	5.0	94	90	110			
Sample ID: C09070372-001AMS		Sample Matrix Spike				Run: MANTECH_090713A				07/13/09 13:01
Alkalinity, Total as CaCO3		356	mg/L	5.0	95	80	120			
Sample ID: C09070372-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090713A				07/13/09 13:08
Alkalinity, Total as CaCO3		358	mg/L	5.0	97	80	120	0.6	20	
Method: A2540 C										Batch: R120833
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090713B				07/13/09 15:48
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090713B				07/13/09 15:48
Solids, Total Dissolved TDS @ 180 C		950	mg/L	10	95	90	110			
Sample ID: C09070329-006AMS		Sample Matrix Spike				Run: BAL-1_090713B				07/13/09 15:51
Solids, Total Dissolved TDS @ 180 C		2350	mg/L	10	101	90	110			
Sample ID: C09070329-006AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090713B				07/13/09 15:52
Solids, Total Dissolved TDS @ 180 C		2370	mg/L	10	103	90	110	1	10	
Method: A2540 C										Batch: R120898
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090714E				07/14/09 16:22
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090714E				07/14/09 16:22
Solids, Total Dissolved TDS @ 180 C		994	mg/L	10	99	90	110			
Sample ID: C09070417-005AMS		Sample Matrix Spike				Run: BAL-1_090714E				07/14/09 16:25
Solids, Total Dissolved TDS @ 180 C		10200	mg/L	10	104	90	110			
Sample ID: C09070417-005AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090714E				07/14/09 16:25
Solids, Total Dissolved TDS @ 180 C		10200	mg/L	10	106	90	110	0.3	10	
Sample ID: C09070417-016AMS		Sample Matrix Spike				Run: BAL-1_090714E				07/14/09 16:29
Solids, Total Dissolved TDS @ 180 C		6630	mg/L	10	101	90	110			
Sample ID: C09070417-016AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090714E				07/14/09 16:29
Solids, Total Dissolved TDS @ 180 C		6680	mg/L	10	103	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-090803C	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_090803C			08/03/09 13:55	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240		Laboratory Control Sample				Run: CVAA-C202_090803C			08/03/09 13:57	
Selenium-IV		0.0470	mg/L	0.0010	94	90	110			
Sample ID: C09070417-001DMS		Sample Matrix Spike				Run: CVAA-C202_090803C			08/03/09 14:04	
Selenium-IV		0.0482	mg/L	0.0010	96	85	115			
Sample ID: C09070417-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090803C			08/03/09 14:06	
Selenium-IV		0.0495	mg/L	0.0010	99	85	115	2.6	10	
Sample ID: C09070417-011DMS		Sample Matrix Spike				Run: CVAA-C202_090803C			08/03/09 14:37	
Selenium-IV		0.0505	mg/L	0.0010	101	85	115			
Sample ID: C09070417-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090803C			08/03/09 14:39	
Selenium-IV		0.0503	mg/L	0.0010	101	85	115	0.3	10	
Method: A4500-Cl B									Batch: 090721-CL-TTR-W	
Sample ID: MBLK9-090721		Method Blank				Run: TITRATION_090721A			07/21/09 09:20	
Chloride		ND	mg/L	0.4						
Sample ID: C09070417-002BMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 10:08	
Chloride		463	mg/L	1.0	104	90	110			
Sample ID: C09070417-002BMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 10:10	
Chloride		448	mg/L	1.0	100	90	110	3.1	10	
Sample ID: C09070417-013BMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 10:43	
Chloride		484	mg/L	1.0	102	90	110			
Sample ID: C09070417-013BMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 10:45	
Chloride		477	mg/L	1.0	100	90	110	1.5	10	
Sample ID: LCS35-090721		Laboratory Control Sample				Run: TITRATION_090721A			07/21/09 10:46	
Chloride		3500	mg/L	1.0	99	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 12:23	
Chloride		406	mg/L	1.0	100	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 12:24	
Chloride		406	mg/L	1.0	100	90	110	0	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 090803-CL-TTR-W	
Sample ID: MBLK9-090803		Method Blank				Run: TITRATION_090803C			08/03/09 15:07	
Chloride		ND	mg/L	0.4						
Sample ID: C09070370-004AMS		Sample Matrix Spike				Run: TITRATION_090803C			08/03/09 15:40	
Chloride		198	mg/L	1.0	97	90	110			
Sample ID: C09070370-004AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_090803C			08/03/09 15:41	
Chloride		200	mg/L	1.0	98	90	110	0.9	10	
Sample ID: LCS35-090803		Laboratory Control Sample				Run: TITRATION_090803C			08/03/09 16:34	
Chloride		3540	mg/L	1.0	100	90	110			
Method: A4500-H B									Analytical Run: ORION555A-2_090713B	
Sample ID: ICV1_090713_2		Initial Calibration Verification Standard							07/13/09 14:17	
pH		6.88	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090713_2_PH-W_555A-2	
Sample ID: C09070417-004BDUP		Sample Duplicate				Run: ORION555A-2_090713B			07/13/09 14:46	
pH		6.68	s.u.	0.010				0.8	10	
Sample ID: C09070417-014BDUP		Sample Duplicate				Run: ORION555A-2_090713B			07/13/09 15:07	
pH		6.85	s.u.	0.010				0.1	10	
Method: A4500-NH3 G									Batch: R120841	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090714A			07/14/09 12:44	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090714A			07/14/09 12:46	
Nitrogen, Ammonia as N		21.3	mg/L	0.20	106	80	120			
Sample ID: C09070417-004FMS		Sample Matrix Spike				Run: TECHNICON_090714A			07/14/09 14:47	
Nitrogen, Ammonia as N		1.98	mg/L	0.050	99	80	120			
Sample ID: C09070417-004FMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090714A			07/14/09 14:49	
Nitrogen, Ammonia as N		1.96	mg/L	0.050	98	80	120	1	20	
Sample ID: C09070417-014FMS		Sample Matrix Spike				Run: TECHNICON_090714A			07/14/09 15:17	
Nitrogen, Ammonia as N		2.33	mg/L	0.050	114	80	120			
Sample ID: C09070417-014FMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090714A			07/14/09 15:19	
Nitrogen, Ammonia as N		2.27	mg/L	0.050	111	80	120	2.6	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 090723_2_SO4-TURB-W	
Sample ID: LCS-1_090723		Laboratory Control Sample				Run: TURB-2_090723A			07/23/09 12:10	
Sulfate		4970	mg/L	59	103	90	110			
Sample ID: MBLK-1_090723		Method Blank				Run: TURB-2_090723A			07/23/09 12:12	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070417-005BMS		Sample Matrix Spike				Run: TURB-2_090723A			07/23/09 12:59	
Sulfate		5880	mg/L	59	106	90	110			
Sample ID: C09070417-005BMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090723A			07/23/09 12:59	
Sulfate		5850	mg/L	59	105	90	110	0.5	10	
Sample ID: C09070417-012BMS		Sample Matrix Spike				Run: TURB-2_090723A			07/23/09 13:55	
Sulfate		5240	mg/L	59	101	90	110			
Sample ID: C09070417-012BMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090723A			07/23/09 13:57	
Sulfate		5240	mg/L	59	101	90	110	0	10	
Method: A4500-SO4 E									Batch: 090803_1_SO4-TURB-W	
Sample ID: LCS-1_090803		Laboratory Control Sample				Run: TURB-2_090803A			08/03/09 14:29	
Sulfate		5220	mg/L	59	109	90	110			
Sample ID: MBLK-1_090803		Method Blank				Run: TURB-2_090803A			08/03/09 15:08	
Sulfate		0.6	mg/L	0.6						
Sample ID: C09071267-004AMS		Sample Matrix Spike				Run: TURB-2_090803A			08/03/09 16:36	
Sulfate		23.0	mg/L	1.0	97	90	110			
Sample ID: C09071267-004AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090803A			08/03/09 16:38	
Sulfate		23.0	mg/L	1.0	97	90	110	0	10	
Method: E1632AM									Batch: H_R55259	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H55259			07/23/09 11:45	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS090723-LCS		Laboratory Control Sample				Run: SUB-H55259			07/23/09 11:52	
Arsenic-III		45.2	ug/L	5.0	90	90	110			
Sample ID: C09070417-005H		Sample Matrix Spike				Run: SUB-H55259			07/23/09 12:45	
Arsenic-III		45.6	ug/L	5.0	91	80	120			
Sample ID: C09070417-005H		Sample Matrix Spike Duplicate				Run: SUB-H55259			07/23/09 12:52	
Arsenic-III		45.7	ug/L	5.0	91	80	120	0.3	20	
Sample ID: H09070184-015H MS		Sample Matrix Spike				Run: SUB-H55259			07/23/09 14:53	
Arsenic-III		48.2	ug/L	5.0	96	80	120			
Sample ID: H09070184-015H MSD		Sample Matrix Spike Duplicate				Run: SUB-H55259			07/23/09 15:00	
Arsenic-III		51.2	ug/L	5.0	102	80	120	6	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121483
Sample ID: MB-090727A	4	Method Blank				Run: ICP2-C_090727A				07/27/09 13:40
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090727A	4	Laboratory Fortified Blank				Run: ICP2-C_090727A				07/27/09 13:44
Calcium		48.7	mg/L	0.50	97	85	115			
Magnesium		48.6	mg/L	0.50	97	85	115			
Potassium		45.3	mg/L	0.50	91	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Sample ID: C09070417-002CMS2	4	Sample Matrix Spike				Run: ICP2-C_090727A				07/27/09 17:41
Calcium		1140	mg/L	2.5	90	70	130			
Magnesium		921	mg/L	1.0	96	70	130			
Potassium		473	mg/L	1.0	90	70	130			
Sodium		679	mg/L	2.3	101	70	130			
Sample ID: C09070417-002CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090727A				07/27/09 17:45
Calcium		1140	mg/L	2.5	91	70	130	0.4	20	
Magnesium		902	mg/L	1.0	93	70	130	2.1	20	
Potassium		468	mg/L	1.0	90	70	130	1	20	
Sodium		674	mg/L	2.3	100	70	130	0.8	20	
Sample ID: C09070417-012CMS2	4	Sample Matrix Spike				Run: ICP2-C_090727A				07/27/09 19:22
Calcium		1010	mg/L	2.5	94	70	130			
Magnesium		957	mg/L	1.0	93	70	130			
Potassium		467	mg/L	1.0	89	70	130			
Sodium		703	mg/L	2.3	97	70	130			
Sample ID: C09070417-012CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090727A				07/27/09 19:26
Calcium		1000	mg/L	2.5	91	70	130	1.4	20	
Magnesium		962	mg/L	1.0	94	70	130	0.5	20	
Potassium		462	mg/L	1.0	88	70	130	1	20	
Sodium		701	mg/L	2.3	96	70	130	0.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121632
Sample ID: MB-090729A	4	Method Blank				Run: ICP2-C_090729A				07/29/09 13:21
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-090729A	4	Laboratory Fortified Blank				Run: ICP2-C_090729A				07/29/09 13:25
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		48.1	mg/L	0.50	96	85	115			
Potassium		44.5	mg/L	0.50	89	85	115			
Sodium		45.7	mg/L	0.50	91	85	115			
Sample ID: C09070701-005CMS2	4	Sample Matrix Spike				Run: ICP2-C_090729A				07/29/09 15:38
Calcium		707	mg/L	1.3	91	70	130			
Magnesium		839	mg/L	1.0	95	70	130			
Potassium		235	mg/L	1.0	88	70	130			
Sodium		390	mg/L	1.2	95	70	130			
Sample ID: C09070701-005CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090729A				07/29/09 15:42
Calcium		719	mg/L	1.3	96	70	130	1.6	20	
Magnesium		837	mg/L	1.0	94	70	130	0.2	20	
Potassium		237	mg/L	1.0	88	70	130	0.8	20	
Sodium		396	mg/L	1.2	98	70	130	1.7	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23043
Sample ID: MB-23043	8	Method Blank				Run: ICPMS2-C_090715B				07/15/09 21:53
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	3E-05						
Lead		ND	mg/L	8E-05						
Manganese		0.0004	mg/L	0.0001						
Molybdenum		ND	mg/L	9E-05						
Nickel		0.0001	mg/L	9E-05						
Uranium		ND	mg/L	6E-05						
Vanadium		0.02	mg/L	0.002						
Sample ID: LCS3-23043	8	Laboratory Control Sample				Run: ICPMS2-C_090715B				07/15/09 21:59
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.485	mg/L	0.010	97	85	115			
Lead		0.524	mg/L	0.050	105	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.535	mg/L	0.10	107	85	115			
Nickel		0.455	mg/L	0.050	91	85	115			
Uranium		0.536	mg/L	0.00030	107	85	115			
Vanadium		0.514	mg/L	0.10	98	85	115			
Sample ID: C09070478-001AMS3	8	Sample Matrix Spike				Run: ICPMS2-C_090715B				07/16/09 01:23
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.469	mg/L	0.010	93	70	130			
Lead		0.534	mg/L	0.050	105	70	130			
Manganese		2.54	mg/L	0.010	95	70	130			
Molybdenum		0.720	mg/L	0.10	111	70	130			
Nickel		0.453	mg/L	0.050	90	70	130			
Uranium		0.557	mg/L	0.00030	111	70	130			
Vanadium		0.529	mg/L	0.10	102	70	130			
Sample ID: C09070478-001AMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090715B				07/16/09 01:30
Cadmium		0.250	mg/L	0.010	100	70	130	1.4	20	
Cobalt		0.486	mg/L	0.010	97	70	130	3.6	20	
Lead		0.553	mg/L	0.050	109	70	130	3.5	20	
Manganese		2.61	mg/L	0.010	98	70	130	2.4	20	
Molybdenum		0.740	mg/L	0.10	115	70	130	2.7	20	
Nickel		0.461	mg/L	0.050	92	70	130	1.7	20	
Uranium		0.577	mg/L	0.00030	115	70	130	3.4	20	
Vanadium		0.542	mg/L	0.10	105	70	130	2.5	20	
Sample ID: MB-23043	2	Method Blank				Run: ICPMS2-C_090716A				07/17/09 01:30
Aluminum		ND	mg/L	0.006						
Beryllium		ND	mg/L	6E-05						
Sample ID: LCS3-23043	2	Laboratory Control Sample				Run: ICPMS2-C_090716A				07/17/09 01:37
Aluminum		2.54	mg/L	0.10	102	85	115			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23043
Sample ID: LCS3-23043	2	Laboratory Control Sample				Run: ICPMS2-C_090716A				07/17/09 01:37
Beryllium		0.287	mg/L	0.010	115	85	115			
Sample ID: C09070478-001AMS3	2	Sample Matrix Spike				Run: ICPMS2-C_090716A				07/17/09 10:26
Aluminum		3.89	mg/L	0.10	88	70	130			
Beryllium		0.239	mg/L	0.010	96	70	130			
Sample ID: C09070478-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090716A				07/17/09 10:33
Aluminum		3.95	mg/L	0.10	90	70	130	1.4	20	
Beryllium		0.241	mg/L	0.010	96	70	130	0.9	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R120802
Sample ID: LRB	9	Method Blank				Run: ICPMS2-C_090713A				07/13/09 15:04
Aluminum		ND	mg/L	0.002						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS2-C_090713A				07/13/09 15:10
Aluminum		0.0514	mg/L	0.0022	103	85	115			
Cadmium		0.0504	mg/L	0.0010	101	85	115			
Cobalt		0.0504	mg/L	0.0010	101	85	115			
Lead		0.0502	mg/L	0.0010	100	85	115			
Manganese		0.0500	mg/L	0.0010	100	85	115			
Molybdenum		0.0502	mg/L	0.0010	100	85	115			
Nickel		0.0505	mg/L	0.0010	101	85	115			
Uranium		0.0481	mg/L	0.00030	96	85	115			
Vanadium		0.0503	mg/L	0.0010	101	85	115			
Sample ID: C09070417-016DMS4	9	Sample Matrix Spike				Run: ICPMS2-C_090713A				07/13/09 18:38
Aluminum		0.0468	mg/L	0.0061	94	70	130			
Cadmium		0.0508	mg/L	0.010	101	70	130			
Cobalt		0.0502	mg/L	0.010	99	70	130			
Lead		0.0530	mg/L	0.050	106	70	130			
Manganese		0.0661	mg/L	0.010	100	70	130			
Molybdenum		0.0577	mg/L	0.0010	113	70	130			
Nickel		0.0536	mg/L	0.050	99	70	130			
Uranium		0.0755	mg/L	0.00030	111	70	130			
Vanadium		0.0552	mg/L	0.0020	105	70	130			
Sample ID: C09070417-016DMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090713A				07/13/09 18:44
Aluminum		0.0455	mg/L	0.0061	91	70	130	2.9	20	
Cadmium		0.0498	mg/L	0.010	99	70	130	2	20	
Cobalt		0.0490	mg/L	0.010	97	70	130	2.3	20	
Lead		0.0522	mg/L	0.050	104	70	130	1.6	20	
Manganese		0.0653	mg/L	0.010	99	70	130	1.2	20	
Molybdenum		0.0568	mg/L	0.0010	112	70	130	1.4	20	
Nickel		0.0526	mg/L	0.050	97	70	130	2	20	
Uranium		0.0741	mg/L	0.00030	108	70	130	1.9	20	
Vanadium		0.0546	mg/L	0.0020	103	70	130	1	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R120914	
Sample ID: LRB	5	Method Blank				Run: ICPMS2-C_090715A			07/15/09 14:17	
Beryllium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Manganese		ND	mg/L	5E-05						
Nickel		ND	mg/L	9E-05						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	5	Laboratory Fortified Blank				Run: ICPMS2-C_090715A			07/15/09 14:24	
Beryllium		0.0542	mg/L	0.0010	108	85	115			
Cobalt		0.0510	mg/L	0.0010	102	85	115			
Manganese		0.0515	mg/L	0.0010	103	85	115			
Nickel		0.0506	mg/L	0.0010	101	85	115			
Vanadium		0.0529	mg/L	0.0010	106	85	115			
Sample ID: C09070417-016DMS4	5	Sample Matrix Spike				Run: ICPMS2-C_090715A			07/15/09 16:06	
Beryllium		0.252	mg/L	0.010	101	70	130			
Cobalt		0.248	mg/L	0.010	99	70	130			
Manganese		0.277	mg/L	0.010	103	70	130			
Nickel		0.247	mg/L	0.050	96	70	130			
Vanadium		0.268	mg/L	0.10	107	70	130			
Sample ID: C09070417-016DMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090715A			07/15/09 16:13	
Beryllium		0.255	mg/L	0.010	102	70	130	1.2	20	
Cobalt		0.250	mg/L	0.010	100	70	130	0.7	20	
Manganese		0.277	mg/L	0.010	103	70	130	0.2	20	
Nickel		0.248	mg/L	0.050	97	70	130	0.7	20	
Vanadium		0.269	mg/L	0.10	107	70	130	0.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R121019
Sample ID: LRB	Method Blank				Run: ICPMS4-C_090717A				07/17/09 12:33
Aluminum	0.002	mg/L	0.0004						
Beryllium	ND	mg/L	6E-05						
Cobalt	ND	mg/L	4E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: ICPMS4-C_090717A				07/17/09 13:03
Aluminum	0.0547	mg/L	0.0010	105	85	115			
Beryllium	0.0527	mg/L	0.0010	105	85	115			
Cobalt	0.0524	mg/L	0.0010	105	85	115			
Manganese	0.0529	mg/L	0.0010	106	85	115			
Molybdenum	0.0521	mg/L	0.0010	104	85	115			
Nickel	0.0512	mg/L	0.0010	102	85	115			
Uranium	0.0516	mg/L	0.00030	103	85	115			
Vanadium	0.0506	mg/L	0.0010	101	85	115			
Sample ID: C09070417-013DMS4	Sample Matrix Spike				Run: ICPMS4-C_090717A				07/17/09 18:09
Aluminum	0.294	mg/L	0.10	114	70	130			
Beryllium	0.243	mg/L	0.010	97	70	130			
Cobalt	0.288	mg/L	0.010	115	70	130			
Manganese	0.856	mg/L	0.010	103	70	130			
Molybdenum	0.297	mg/L	0.10	119	70	130			
Nickel	0.286	mg/L	0.050	111	70	130			
Uranium	0.343	mg/L	0.00035	121	70	130			
Vanadium	0.288	mg/L	0.10	115	70	130			
Sample ID: C09070417-013DMSD4	Sample Matrix Spike Duplicate				Run: ICPMS4-C_090717A				07/17/09 18:14
Aluminum	0.289	mg/L	0.10	112	70	130	1.5	20	
Beryllium	0.243	mg/L	0.010	97	70	130	0.1	20	
Cobalt	0.290	mg/L	0.010	115	70	130	0.6	20	
Manganese	0.869	mg/L	0.010	108	70	130	1.5	20	
Molybdenum	0.294	mg/L	0.10	118	70	130	0.9	20	
Nickel	0.276	mg/L	0.050	107	70	130	3.5	20	
Uranium	0.342	mg/L	0.00035	120	70	130	0.2	20	
Vanadium	0.278	mg/L	0.10	111	70	130	3.7	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R121253
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090722A				07/22/09 12:43
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090722A				07/22/09 12:46
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	99	90	110			
Sample ID: C09070725-001GMS		Sample Matrix Spike				Run: TECHNICON_090722A				07/22/09 14:18
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	102	90	110			
Sample ID: C09070725-001GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090722A				07/22/09 14:21
Nitrogen, Nitrate+Nitrite as N		2.06	mg/L	0.10	101	90	110	1.4	10	
Method: E353.2										Batch: R121364
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090724A				07/24/09 10:13
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090724A				07/24/09 10:15
Nitrogen, Nitrate+Nitrite as N		2.53	mg/L	0.10	101	90	110			
Sample ID: C09070503-001EMS		Sample Matrix Spike				Run: TECHNICON_090724A				07/24/09 10:30
Nitrogen, Nitrate+Nitrite as N		2.23	mg/L	0.10	102	90	110			
Sample ID: C09070503-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090724A				07/24/09 10:33
Nitrogen, Nitrate+Nitrite as N		2.24	mg/L	0.10	103	90	110	0.4	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R120817
Sample ID: 13-Jul-09_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_090713B				07/13/09 11:00
Bromodichloromethane		9.64	ug/L	1.0	96	70	130			
Bromoform		8.76	ug/L	1.0	88	70	130			
Chlorodibromomethane		9.88	ug/L	1.0	99	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		38.5	ug/L	1.0	96	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	103	80	120			
Surr: Dibromofluoromethane				1.0	98	80	120			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	114	80	120			
Sample ID: 13-Jul-09_MBLK_6	9	Method Blank				Run: 5975VOC1_090713B				07/13/09 12:47
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	119	80	120			
Surr: Dibromofluoromethane				1.0	98	80	120			
Surr: p-Bromofluorobenzene				1.0	90	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C09070417-016GMS	9	Sample Matrix Spike				Run: 5975VOC1_090713B				07/13/09 16:58
Bromodichloromethane		104	ug/L	10	104	70	130			
Bromoform		115	ug/L	10	115	70	130			
Chlorodibromomethane		106	ug/L	10	106	70	130			
Chloroform		122	ug/L	10	122	70	130			
Trihalomethanes, Total		447	ug/L	10	112	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	118	80	120			
Surr: Dibromofluoromethane				10	111	80	120			
Surr: p-Bromofluorobenzene				10	104	80	120			
Surr: Toluene-d8				10	105	80	120			
Sample ID: C09070417-016GMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_090713B				07/13/09 17:34
Bromodichloromethane		103	ug/L	10	103	70	130	1.5	20	
Bromoform		114	ug/L	10	114	70	130	0.7	20	
Chlorodibromomethane		105	ug/L	10	105	70	130	0.4	20	
Chloroform		116	ug/L	10	116	70	130	4.7	20	
Trihalomethanes, Total		439	ug/L	10	110	70	130	1.9	20	
Surr: 1,2-Dichlorobenzene-d4				10	117	80	120			
Surr: Dibromofluoromethane				10	106	80	120			
Surr: p-Bromofluorobenzene				10	104	80	120			
Surr: Toluene-d8				10	106	80	120			

Qualifiers:

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0248
Sample ID: MB-GA-0248	3	Method Blank				Run: G5000W_090723A				07/27/09 12:09
Gross Alpha minus Rn & U		2	pCi/L							
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.3	pCi/L							
Sample ID: LCS-GA-0248		Laboratory Control Sample				Run: G5000W_090723A				07/27/09 12:09
Gross Alpha minus Rn & U		26.7	pCi/L		95	70	130			
Sample ID: C09070417-013EMS		Sample Matrix Spike				Run: G5000W_090723A				07/27/09 14:00
Gross Alpha minus Rn & U		52.8	pCi/L		98	70	130			
Sample ID: C09070417-013EMSD		Sample Matrix Spike Duplicate				Run: G5000W_090723A				07/27/09 14:00
Gross Alpha minus Rn & U		48.5	pCi/L		90	70	130	8.5	22.1	
Method: E903.0										Batch: RA226-3819
Sample ID: C09070368-002AMS		Sample Matrix Spike				Run: G5000W_090714B				07/28/09 15:58
Radium 226		16	pCi/L		102	70	130			
Sample ID: C09070368-002AMSD		Sample Matrix Spike Duplicate				Run: G5000W_090714B				07/28/09 15:58
Radium 226		16	pCi/L		103	70	130	1.8	23.3	
Sample ID: MB-RA226-3819	3	Method Blank				Run: G5000W_090714B				07/28/09 15:58
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-3819		Laboratory Control Sample				Run: G5000W_090714B				07/28/09 15:58
Radium 226		8.3	pCi/L		105	70	130			
Method: E903.0										Batch: RA226-3823
Sample ID: TAP_WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_090714J				07/28/09 17:42
Radium 226		15	pCi/L		92	70	130			
Sample ID: TAP_WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090714J				07/28/09 17:42
Radium 226		14	pCi/L		86	70	130	7.1	23.7	
Sample ID: MB-RA226-3823	3	Method Blank				Run: TENNELEC-3_090714J				07/28/09 17:42
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-3823		Laboratory Control Sample				Run: TENNELEC-3_090714J				07/28/09 17:42
Radium 226		7.3	pCi/L		91	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-3825
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		14	pCi/L		85	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		15	pCi/L		95	70	130	12	26	
Sample ID: MB-RA226-3825	3	Method Blank				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		-0.08	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3825		Laboratory Control Sample				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		7.4	pCi/L		95	70	130			
Method: E907.0										Batch: RA-TH-ISO-0851
Sample ID: LCS-RA-TH-ISO-0851		Laboratory Control Sample				Run: EGG-ORTEC_090716C				07/23/09 08:11
Thorium 230		4.69pCi/L			93	70	130			
Sample ID: C09070417-016EMS		Sample Matrix Spike				Run: EGG-ORTEC_090716C				07/23/09 13:21
Thorium 230		30.9pCi/L			95	70	130			
Sample ID: C09070417-016EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090716C				07/23/09 13:21
Thorium 230		31.0pCi/L			96	70	130	0.3	41.5	
Sample ID: MB-RA-TH-ISO-0851	3	Method Blank				Run: EGG-ORTEC_090716C				07/23/09 13:21
Thorium 230		0.1	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E909.0M										Batch: R121729
Sample ID: C09040275-001AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_090720A				07/20/09 10:30
Lead 210		130	pCi/L		103	70	130			
Sample ID: C09040275-001AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_090720A				07/20/09 10:30
Lead 210		130	pCi/L		101	70	130	2.3	30	
Sample ID: MB-R121729	3	Method Blank				Run: BECKMAN 6100TA_090720A				07/20/09 10:30
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R121729		Laboratory Control Sample				Run: BECKMAN 6100TA_090720A				07/20/09 10:30
Lead 210		530	pCi/L		93	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/19/09
Work Order: C09070417

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2768
Sample ID: LCS-228-RA226-3819		Laboratory Control Sample				Run: TENNELEC-3_090714H				07/23/09 09:47
Radium 228		7.33	pCi/L		78	70	130			
Sample ID: MB-RA226-3819	3	Method Blank				Run: TENNELEC-3_090714H				07/23/09 09:47
Radium 228		0.7	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C09070368-002AMS		Sample Matrix Spike				Run: TENNELEC-3_090714H				07/23/09 09:47
Radium 228		17.5	pCi/L		101	70	130			
Sample ID: C09070368-002AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090714H				07/23/09 09:47
Radium 228		16.9	pCi/L		97	70	130	3.5	39.4	
Method: RA-05										Batch: RA228-2771
Sample ID: LCS-228-RA226-3823		Laboratory Control Sample				Run: TENNELEC-3_090714G				07/23/09 11:51
Radium 228		8.8	pCi/L		97	70	130			
Sample ID: MB-RA226-3823	3	Method Blank				Run: TENNELEC-3_090714G				07/23/09 11:51
Radium 228		0.5	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_090714G				07/23/09 11:51
Radium 228		15	pCi/L		85	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090714G				07/23/09 11:51
Radium 228		17	pCi/L		94	70	130	10	36.7	
Method: RA-05										Batch: RA228-2773
Sample ID: LCS-228-RA226-3825		Laboratory Control Sample				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		8.4	pCi/L		100	70	130			
Sample ID: MB-RA226-3825	3	Method Blank				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		-0.08	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		14	pCi/L		82	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		14	pCi/L		85	70	130	3	42.9	

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ANALYTICAL SUMMARY REPORT

August 07, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09070426 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corp on 7/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070426-001	614	07/08/09 08:45	07/10/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070426-002	515-A	07/08/09 09:35	07/10/09	Aqueous	Same As Above
C09070426-003	604	07/08/09 10:30	07/10/09	Aqueous	Same As Above
C09070426-004	Field Blank	07/08/09 11:30	07/10/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C09070426

Date: 07-Aug-09

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R120777
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090713A				07/13/09 11:39
Alkalinity, Total as CaCO3		4	mg/L	0.2						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090713A				07/13/09 12:01
Alkalinity, Total as CaCO3		51.4	mg/L	5.0	94	90	110			
Sample ID: C09070372-001AMS		Sample Matrix Spike				Run: MANTECH_090713A				07/13/09 13:01
Alkalinity, Total as CaCO3		356	mg/L	5.0	95	80	120			
Sample ID: C09070372-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090713A				07/13/09 13:08
Alkalinity, Total as CaCO3		358	mg/L	5.0	97	80	120	0.6	20	
Method: A2540 C										Batch: R120956
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090716A				07/15/09 15:59
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090716A				07/15/09 15:59
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C09070426-004AMS		Sample Matrix Spike				Run: BAL-1_090716A				07/15/09 16:03
Solids, Total Dissolved TDS @ 180 C		2160	mg/L	10	103	90	110			
Sample ID: C09070426-004AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090716A				07/15/09 16:03
Solids, Total Dissolved TDS @ 180 C		2140	mg/L	10	101	90	110	1.2	10	
Method: A3114 B										Batch: SE3114-090803C
Sample ID: MBLK		Method Blank				Run: CVAA-C202_090803C				08/03/09 13:55
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240		Laboratory Control Sample				Run: CVAA-C202_090803C				08/03/09 13:57
Selenium-IV		0.0470	mg/L	0.0010	94	90	110			
Sample ID: C09070417-011DMS		Sample Matrix Spike				Run: CVAA-C202_090803C				08/03/09 14:37
Selenium-IV		0.0505	mg/L	0.0010	101	85	115			
Sample ID: C09070417-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090803C				08/03/09 14:39
Selenium-IV		0.0503	mg/L	0.0010	101	85	115	0.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-090804B	
Sample ID: MBLK	Method Blank					Run: CVAA-C202_090804B			08/04/09 11:57	
Selenium-IV		0.0004	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240	Laboratory Control Sample					Run: CVAA-C202_090804B			08/04/09 12:00	
Selenium-IV		0.0494	mg/L	0.0010	98	90	110			
Sample ID: C09070426-003DMS	Sample Matrix Spike					Run: CVAA-C202_090804B			08/04/09 12:08	
Selenium-IV		0.0532	mg/L	0.0010	105	85	115			
Sample ID: C09070426-003DMSD	Sample Matrix Spike Duplicate					Run: CVAA-C202_090804B			08/04/09 12:10	
Selenium-IV		0.0509	mg/L	0.0010	101	85	115	4.3	10	
Method: A4500-Cl B									Batch: 090721-CL-TTR-W	
Sample ID: MBLK9-090721	Method Blank					Run: TITRATION_090721A			07/21/09 09:20	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-090721	Laboratory Control Sample					Run: TITRATION_090721A			07/21/09 10:46	
Chloride		3500	mg/L	1.0	99	90	110			
Sample ID: C09070417-016BMS	Sample Matrix Spike					Run: TITRATION_090721A			07/21/09 12:23	
Chloride		406	mg/L	1.0	100	90	110			
Sample ID: C09070417-016BMS	Sample Matrix Spike Duplicate					Run: TITRATION_090721A			07/21/09 12:24	
Chloride		406	mg/L	1.0	100	90	110	0	10	
Method: A4500-H B									Analytical Run: ORION555A-2_090714A	
Sample ID: ICV1_090714_1	Initial Calibration Verification Standard								07/14/09 09:39	
pH		6.87	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090714_1_PH-W_555A-2	
Sample ID: C09070426-002BDUP	Sample Duplicate					Run: ORION555A-2_090714A			07/14/09 10:19	
pH		6.07	s.u.	0.010				1.2	10	
Method: A4500-NH3 G									Batch: R121158	
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_090721A			07/21/09 09:59	
Nitrogen, Ammonia as N		0.03	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_090721A			07/21/09 10:01	
Nitrogen, Ammonia as N		21.3	mg/L	0.20	106	80	120			
Sample ID: C09070370-002DMS	Sample Matrix Spike					Run: TECHNICON_090721A			07/21/09 10:13	
Nitrogen, Ammonia as N		2.19	mg/L	0.050	107	80	120			
Sample ID: C09070370-002DMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_090721A			07/21/09 10:15	
Nitrogen, Ammonia as N		2.16	mg/L	0.050	106	80	120	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 090724_1_SO4-TURB-W	
Sample ID: LCS-1_090724		Laboratory Control Sample				Run: TURB-2_090724A			07/24/09 10:55	
Sulfate		4990	mg/L	59	104	90	110			
Sample ID: MBLK-1_090724		Method Blank				Run: TURB-2_090724A			07/24/09 10:56	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070500-001AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 11:34	
Sulfate		60.4	mg/L	1.0	92	90	110			
Sample ID: C09070500-001AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 11:35	
Sulfate		61.5	mg/L	1.0	97	90	110	1.7	10	
Method: E1632AM									Analytical Run: SUB-H55209	
Sample ID: AS090722-50		Continuing Calibration Verification Standard							07/22/09 14:26	
Arsenic-III		53.6	ug/L	5.0	107	90	110			
Sample ID: AS090722-10		CRDL Standard for ICP							07/22/09 13:30	
Arsenic-III		15.0	ug/L	5.0	150	50	150			
Sample ID: AS090722-ICV		Initial Calibration Verification Standard							07/22/09 13:13	
Arsenic-III		23.4	ug/L	5.0	94	90	110			
Method: E1632AM									Batch: H_R55209	
Sample ID: AS090722-LCS		Laboratory Control Sample				Run: SUB-H55209			07/22/09 14:39	
Arsenic-III		46.0	ug/L	5.0	92	90	110			
Sample ID: H09070186-016A MS		Sample Matrix Spike				Run: SUB-H55209			07/22/09 14:52	
Arsenic-III		542	ug/L	5.0		80	120			A
Sample ID: MBLK_13r		Method Blank				Run: SUB-H55209			07/22/09 13:43	
Arsenic-III		ND	ug/L	0.3						
Sample ID: H09070186-016A MSD		Sample Matrix Spike Duplicate				Run: SUB-H55209			07/22/09 15:12	
Arsenic-III		266	ug/L	5.0		80	120	1.7	20	A

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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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121190
Sample ID: MB-090721A	4	Method Blank				Run: ICP2-C_090721A				07/21/09 12:12
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090721A	4	Laboratory Fortified Blank				Run: ICP2-C_090721A				07/21/09 12:16
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		49.6	mg/L	0.50	99	85	115			
Potassium		47.0	mg/L	0.50	94	85	115			
Sodium		45.9	mg/L	0.50	92	85	115			
Sample ID: C09070423-007CMS2	4	Sample Matrix Spike				Run: ICP2-C_090721A				07/21/09 14:29
Calcium		115	mg/L	1.0	94	70	130			
Magnesium		100	mg/L	1.0	98	70	130			
Potassium		98.2	mg/L	1.0	95	70	130			
Sodium		135	mg/L	1.0	98	70	130			
Sample ID: C09070423-007CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090721A				07/21/09 14:33
Calcium		119	mg/L	1.0	98	70	130	2.8	20	
Magnesium		99.4	mg/L	1.0	97	70	130	1.1	20	
Potassium		97.5	mg/L	1.0	94	70	130	0.7	20	
Sodium		137	mg/L	1.0	100	70	130	1.3	20	
Method: E200.7										Batch: R121483
Sample ID: MB-090727A		Method Blank				Run: ICP2-C_090727A				07/27/09 13:40
Manganese		ND	mg/L	0.001						
Sample ID: LFB-090727A		Laboratory Fortified Blank				Run: ICP2-C_090727A				07/27/09 13:44
Manganese		0.973	mg/L	0.010	97	85	115			
Sample ID: C09070417-002CMS2		Sample Matrix Spike				Run: ICP2-C_090727A				07/27/09 17:41
Manganese		14.1	mg/L	0.014	93	70	130			
Sample ID: C09070417-002CMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_090727A				07/27/09 17:45
Manganese		14.1	mg/L	0.014	93	70	130	0.1	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23043
Sample ID: MB-23043	9	Method Blank				Run: ICPMS2-C_090715B				07/15/09 21:53
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		0.0004	mg/L	0.0001						
Molybdenum		ND	mg/L	9E-05						
Nickel		0.0001	mg/L	9E-05						
Uranium		ND	mg/L	6E-05						
Vanadium		0.02	mg/L	0.002						
Sample ID: LCS3-23043	9	Laboratory Control Sample				Run: ICPMS2-C_090715B				07/15/09 21:59
Beryllium		0.226	mg/L	0.010	90	85	115			
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.485	mg/L	0.010	97	85	115			
Lead		0.524	mg/L	0.050	105	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.535	mg/L	0.10	107	85	115			
Nickel		0.455	mg/L	0.050	91	85	115			
Uranium		0.536	mg/L	0.00030	107	85	115			
Vanadium		0.514	mg/L	0.10	98	85	115			
Sample ID: C09070478-001AMS3	9	Sample Matrix Spike				Run: ICPMS2-C_090715B				07/16/09 01:23
Beryllium		0.231	mg/L	0.010	92	70	130			
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.469	mg/L	0.010	93	70	130			
Lead		0.534	mg/L	0.050	105	70	130			
Manganese		2.54	mg/L	0.010	95	70	130			
Molybdenum		0.720	mg/L	0.10	111	70	130			
Nickel		0.453	mg/L	0.050	90	70	130			
Uranium		0.557	mg/L	0.00030	111	70	130			
Vanadium		0.529	mg/L	0.10	102	70	130			
Sample ID: C09070478-001AMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090715B				07/16/09 01:30
Beryllium		0.239	mg/L	0.010	95	70	130	3.3	20	
Cadmium		0.250	mg/L	0.010	100	70	130	1.4	20	
Cobalt		0.486	mg/L	0.010	97	70	130	3.6	20	
Lead		0.553	mg/L	0.050	109	70	130	3.5	20	
Manganese		2.61	mg/L	0.010	98	70	130	2.4	20	
Molybdenum		0.740	mg/L	0.10	115	70	130	2.7	20	
Nickel		0.461	mg/L	0.050	92	70	130	1.7	20	
Uranium		0.577	mg/L	0.00030	115	70	130	3.4	20	
Vanadium		0.542	mg/L	0.10	105	70	130	2.5	20	
Sample ID: MB-23043		Method Blank				Run: ICPMS2-C_090716A				07/17/09 01:30
Aluminum		ND	mg/L	0.006						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23043
Sample ID: LCS3-23043		Laboratory Control Sample				Run: ICPMS2-C_090716A				07/17/09 01:37
Aluminum		2.54	mg/L	0.10	102	85	115			
Sample ID: C09070478-001AMS3		Sample Matrix Spike				Run: ICPMS2-C_090716A				07/17/09 10:26
Aluminum		3.89	mg/L	0.10	88	70	130			
Sample ID: C09070478-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_090716A				07/17/09 10:33
Aluminum		3.95	mg/L	0.10	90	70	130	1.4	20	

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R120802
Sample ID: LRB	9	Method Blank				Run: ICPMS2-C_090713A				07/13/09 15:04
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS2-C_090713A				07/13/09 15:10
Aluminum		0.0514	mg/L	0.0022	103	85	115			
Beryllium		0.0490	mg/L	0.0010	98	85	115			
Cadmium		0.0504	mg/L	0.0010	101	85	115			
Cobalt		0.0504	mg/L	0.0010	101	85	115			
Lead		0.0502	mg/L	0.0010	100	85	115			
Molybdenum		0.0502	mg/L	0.0010	100	85	115			
Nickel		0.0505	mg/L	0.0010	101	85	115			
Uranium		0.0481	mg/L	0.00030	96	85	115			
Vanadium		0.0503	mg/L	0.0010	101	85	115			
Sample ID: C09070423-007CMS4	9	Sample Matrix Spike				Run: ICPMS2-C_090713A				07/13/09 21:14
Aluminum		0.0501	mg/L	0.0010	91	70	130			
Beryllium		0.0530	mg/L	0.010	106	70	130			
Cadmium		0.0517	mg/L	0.010	103	70	130			
Cobalt		0.0494	mg/L	0.010	99	70	130			
Lead		0.0509	mg/L	0.050	101	70	130			
Molybdenum		0.0513	mg/L	0.0010	100	70	130			
Nickel		0.0505	mg/L	0.0010	101	70	130			
Uranium		0.0509	mg/L	0.00030	101	70	130			
Vanadium		0.0504	mg/L	0.0010	101	70	130			
Sample ID: C09070423-007CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090713A				07/13/09 21:20
Aluminum		0.0501	mg/L	0.0010	91	70	130	0	20	
Beryllium		0.0520	mg/L	0.010	104	70	130	1.7	20	
Cadmium		0.0516	mg/L	0.010	103	70	130	0.2	20	
Cobalt		0.0493	mg/L	0.010	99	70	130	0.1	20	
Lead		0.0507	mg/L	0.050	101	70	130	0.3	20	
Molybdenum		0.0516	mg/L	0.0010	101	70	130	0.6	20	
Nickel		0.0495	mg/L	0.0010	99	70	130	1.9	20	
Uranium		0.0504	mg/L	0.00030	100	70	130	0.8	20	
Vanadium		0.0500	mg/L	0.0010	100	70	130	0.7	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R121253
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090722A				07/22/09 12:43
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090722A				07/22/09 12:46
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	99	90	110			
Sample ID: C09070725-001GMS		Sample Matrix Spike				Run: TECHNICON_090722A				07/22/09 14:18
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	102	90	110			
Sample ID: C09070725-001GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090722A				07/22/09 14:21
Nitrogen, Nitrate+Nitrite as N		2.06	mg/L	0.10	101	90	110	1.4	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R120853
Sample ID: 14-Jul-09_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_090714A				07/14/09 11:42
Bromodichloromethane		8.28	ug/L	1.0	83	70	130			
Bromoform		10.2	ug/L	1.0	102	70	130			
Chlorodibromomethane		9.36	ug/L	1.0	94	70	130			
Chloroform		8.00	ug/L	1.0	80	70	130			
Trihalomethanes, Total		35.8	ug/L	1.0	90	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	80	80	120			
Surr: p-Bromofluorobenzene				1.0	89	80	120			
Surr: Toluene-d8				1.0	109	80	120			
Sample ID: 14-Jul-09_MBLK_8	9	Method Blank				Run: 5975VOC1_090714A				07/14/09 14:40
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	110	80	120			
Surr: Dibromofluoromethane				1.0	86	80	120			
Surr: p-Bromofluorobenzene				1.0	90	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: C09070426-002GMS	9	Sample Matrix Spike				Run: 5975VOC1_090714A				07/14/09 20:38
Bromodichloromethane		95.6	ug/L	10	96	70	130			
Bromoform		94.8	ug/L	10	95	70	130			
Chlorodibromomethane		97.6	ug/L	10	98	70	130			
Chloroform		184	ug/L	10	112	70	130			
Trihalomethanes, Total		472	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	104	80	120			
Surr: Dibromofluoromethane				10	98	80	120			
Surr: p-Bromofluorobenzene				10	102	80	120			
Surr: Toluene-d8				10	111	80	120			
Sample ID: C09070426-002GMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_090714A				07/14/09 21:14
Bromodichloromethane		95.6	ug/L	10	96	70	130	0	20	
Bromoform		98.4	ug/L	10	98	70	130	3.7	20	
Chlorodibromomethane		102	ug/L	10	102	70	130	4	20	
Chloroform		182	ug/L	10	109	70	130	1.3	20	
Trihalomethanes, Total		477	ug/L	10	101	70	130	1.1	20	
Surr: 1,2-Dichlorobenzene-d4				10	106	80	120			
Surr: Dibromofluoromethane				10	96	80	120			
Surr: p-Bromofluorobenzene				10	100	80	120			
Surr: Toluene-d8				10	110	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0247
Sample ID: MB-GA-0247	3	Method Blank				Run: BERTHOLD 770-2_090720A				07/22/09 17:17
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.5	pCi/L							
Gross Alpha minus Rn & U MDC		0.8	pCi/L							
Sample ID: LCS-GA-0247		Laboratory Control Sample				Run: BERTHOLD 770-2_090720A				07/22/09 17:17
Gross Alpha minus Rn & U		24.0	pCi/L		91	70	130			
Sample ID: C09070370-003CMS		Sample Matrix Spike				Run: BERTHOLD 770-2_090720A				07/22/09 22:40
Gross Alpha minus Rn & U		24.7	pCi/L		90	70	130			
Sample ID: C09070370-003CMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_090720A				07/22/09 22:40
Gross Alpha minus Rn & U		24.4	pCi/L		89	70	130	1.2	26.9	
Method: E903.0										Batch: RA226-3832
Sample ID: C09070599-001BMS		Sample Matrix Spike				Run: BERTHOLD 770-2_090717B				07/27/09 17:14
Radium 226		45	pCi/L		123	70	130			
Sample ID: C09070599-001BMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_090717B				07/27/09 17:14
Radium 226		48	pCi/L		140	70	130	5.5	21.3	S
- Spike response is outside of the acceptance range for this analysis. Since the MB, LCS and MS are acceptable the batch is approved.										
Sample ID: MB-RA226-3832	3	Method Blank				Run: BERTHOLD 770-2_090717B				07/27/09 19:04
Radium 226		-0.05	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3832		Laboratory Control Sample				Run: BERTHOLD 770-2_090717B				07/27/09 19:04
Radium 226		8.6	pCi/L		110	70	130			
Method: E907.0										Batch: RA-TH-ISO-0853
Sample ID: LCS-RA-TH-ISO-0853		Laboratory Control Sample				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		5.18	pCi/L		105	70	130			
Sample ID: C09070426-004EMS		Sample Matrix Spike				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		21.7	pCi/L		88	70	130			
Sample ID: C09070426-004EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		26.5	pCi/L		107	70	130	20	45.3	
Sample ID: MB-RA-TH-ISO-0853	3	Method Blank				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		0.04	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

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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.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/06/09
Work Order: C09070426

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R121681
Sample ID: C09040055-001AMS		Sample Matrix Spike				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		130	pCi/L		113	70	130			
Sample ID: C09040055-001AMSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		140	pCi/L		124	70	130	9	30	
Sample ID: MB-R121681	3	Method Blank				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		3	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R121681		Laboratory Control Sample				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		510	pCi/L		89	70	130			
Method: RA-05										Batch: RA228-2775
Sample ID: LCS-228-RA226-3832		Laboratory Control Sample				Run: TENNELEC-3_090717A				07/20/09 14:46
Radium 228		8.0	pCi/L		96	70	130			
Sample ID: MB-RA226-3832	3	Method Blank				Run: TENNELEC-3_090717A				07/20/09 14:46
Radium 228		-0.1	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070599-007AMS		Sample Matrix Spike				Run: TENNELEC-3_090717A				07/20/09 14:46
Radium 228		18	pCi/L		108	70	130			
Sample ID: C09070599-007AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090717A				07/20/09 14:46
Radium 228		19	pCi/L		119	70	130	8.3	37.4	

Qualifiers:

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

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ANALYTICAL SUMMARY REPORT

August 24, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09070725 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 8 samples for United Nuclear Corp on 7/17/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070725-001	EPA-4	07/13/09 09:25	07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070725-002	EPA-5	07/13/09 10:15	07/17/09	Aqueous	Same As Above
C09070725-003	EPA-7	07/13/09 10:55	07/17/09	Aqueous	Same As Above
C09070725-004	EPA-2	07/13/09 11:45	07/17/09	Aqueous	Same As Above
C09070725-005	EPA-2 Duplicate	07/13/09 12:15	07/17/09	Aqueous	Same As Above
C09070725-006	TWQ-142	07/14/09 12:50	07/17/09	Aqueous	Same As Above
C09070725-007	517	07/13/09 12:50	07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics

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ANALYTICAL SUMMARY REPORT

C09070725-008 Field Blank	07/14/09 16:00 07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C09070725

Date: 24-Aug-09

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.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R121197
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090721A				07/21/09 11:11
Alkalinity, Total as CaCO3		3	mg/L	0.2						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:26
Alkalinity, Total as CaCO3		200	mg/L	5.0	98	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:33
Alkalinity, Total as CaCO3		51.3	mg/L	5.0	97	90	110			
Sample ID: C09070704-003BMS		Sample Matrix Spike				Run: MANTECH_090721A				07/21/09 12:19
Alkalinity, Total as CaCO3		333	mg/L	5.0	103	80	120			
Sample ID: C09070704-003BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090721A				07/21/09 12:27
Alkalinity, Total as CaCO3		329	mg/L	5.0	100	80	120	1.3	20	
Method: A2540 C										Batch: R121303
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090722B				07/22/09 15:29
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090722B				07/22/09 15:30
Solids, Total Dissolved TDS @ 180 C		998	mg/L	10	100	90	110			
Sample ID: C09070725-005BMS		Sample Matrix Spike				Run: BAL-1_090722B				07/22/09 15:37
Solids, Total Dissolved TDS @ 180 C		4760	mg/L	10	100	90	110			
Sample ID: C09070725-005BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090722B				07/22/09 15:37
Solids, Total Dissolved TDS @ 180 C		4810	mg/L	10	102	90	110	1	10	
Method: A3114 B										Batch: SE3114-090804B
Sample ID: MBLK		Method Blank				Run: CVAA-C202_090804B				08/04/09 11:57
Selenium-IV		0.0004	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240		Laboratory Control Sample				Run: CVAA-C202_090804B				08/04/09 12:00
Selenium-IV		0.0494	mg/L	0.0010	98	90	110			
Sample ID: C09070701-009DMS		Sample Matrix Spike				Run: CVAA-C202_090804B				08/04/09 12:47
Selenium-IV		0.0456	mg/L	0.0010	90	85	115			
Sample ID: C09070701-009DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090804B				08/04/09 12:49
Selenium-IV		0.0464	mg/L	0.0010	92	85	115	1.6	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 090721-CL-TTR-W	
Sample ID: MBLK9-090721		Method Blank				Run: TITRATION_090721A			07/21/09 09:20	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-090721		Laboratory Control Sample				Run: TITRATION_090721A			07/21/09 10:46	
Chloride		3500	mg/L	1.0	99	90	110			
Sample ID: C09070725-006AMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 15:21	
Chloride		105	mg/L	1.0	102	90	110			
Sample ID: C09070725-006AMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 15:22	
Chloride		103	mg/L	1.0	100	90	110	1.7	10	
Sample ID: C09070725-008AMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 15:53	
Chloride		406	mg/L	1.0	94	90	110			
Sample ID: C09070725-008AMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 15:55	
Chloride		413	mg/L	1.0	96	90	110	1.7	10	
Method: A4500-H B									Analytical Run: ORION555A-2_090721B	
Sample ID: ICV1_090721_2		Initial Calibration Verification Standard							07/21/09 14:56	
pH		6.87	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090721_2_PH-W_555A-2	
Sample ID: C09070725-008ADUP		Sample Duplicate				Run: ORION555A-2_090721B			07/21/09 16:22	
pH		8.30	s.u.	0.010				0.6	10	
Method: A4500-NH3 G									Batch: R121158	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090721A			07/21/09 09:59	
Nitrogen, Ammonia as N		0.03	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090721A			07/21/09 10:01	
Nitrogen, Ammonia as N		21.3	mg/L	0.20	106	80	120			
Sample ID: C09070722-001BMS		Sample Matrix Spike				Run: TECHNICON_090721A			07/21/09 13:35	
Nitrogen, Ammonia as N		2.13	mg/L	0.050	103	80	120			
Sample ID: C09070722-001BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090721A			07/21/09 13:37	
Nitrogen, Ammonia as N		2.08	mg/L	0.050	101	80	120	2.4	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E								Batch: 090724_1_SO4-TURB-W		
Sample ID: LCS-1_090724		Laboratory Control Sample				Run: TURB-2_090724A			07/24/09 10:55	
Sulfate		4990	mg/L	59	104	90	110			
Sample ID: MBLK-1_090724		Method Blank				Run: TURB-2_090724A			07/24/09 10:56	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070701-007AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 12:43	
Sulfate		4120	mg/L	59	108	90	110			
Sample ID: C09070701-007AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 12:43	
Sulfate		4050	mg/L	59	104	90	110	1.8	10	
Sample ID: C09070725-004AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 13:06	
Sulfate		3450	mg/L	59	90	90	110			
Sample ID: C09070725-004AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 13:08	
Sulfate		3420	mg/L	59	88	90	110	0.9	10	S
Method: A4500-SO4 E								Batch: 090730_1_SO4-TURB-W		
Sample ID: LCS-1_090730		Laboratory Control Sample				Run: TURB-2_090730A			07/30/09 15:01	
Sulfate		4950	mg/L	59	103	90	110			
Sample ID: MBLK-1_090730		Method Blank				Run: TURB-2_090730A			07/30/09 15:02	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070697-005AMS		Sample Matrix Spike				Run: TURB-2_090730A			07/30/09 15:21	
Sulfate		116	mg/L	2.0	106	90	110			
Sample ID: C09070697-005AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090730A			07/30/09 15:22	
Sulfate		116	mg/L	2.0	106	90	110	0	10	
Method: A4500-SO4 E								Batch: 090811_1_SO4-TURB-W		
Sample ID: LCS-1_090811		Laboratory Control Sample				Run: TURB-2_090811A			08/11/09 11:37	
Sulfate		5170	mg/L	59	108	90	110			
Sample ID: MBLK-1_090811		Method Blank				Run: TURB-2_090811A			08/11/09 11:36	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070594-001AMS		Sample Matrix Spike				Run: TURB-2_090811A			08/11/09 11:50	
Sulfate		153	mg/L	2.9	110	90	110			
Sample ID: C09070594-001AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090811A			08/11/09 11:50	
Sulfate		153	mg/L	2.9	109	90	110	0.3	10	

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R55466	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H55466			07/30/09 16:23	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS090730-LCS		Laboratory Control Sample				Run: SUB-H55466			07/30/09 16:29	
Arsenic-III		53.1	ug/L	5.0	106	90	110			
Sample ID: C09070725-003E		Sample Matrix Spike				Run: SUB-H55466			07/30/09 17:00	
Arsenic-III		71.7	ug/L	5.0	143	80	120			S
Sample ID: C09070725-003E		Sample Matrix Spike Duplicate				Run: SUB-H55466			07/30/09 17:07	
Arsenic-III		72.0	ug/L	5.0	144	80	120	0.4	20	S
Sample ID: C09070725-006E		Sample Duplicate				Run: SUB-H55466			07/30/09 17:34	
Arsenic-III		ND	ug/L	5.0					20	
Method: E200.7									Batch: R121700	
Sample ID: MB-090730A	4	Method Blank				Run: ICP2-C_090730A			07/30/09 12:56	
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-090730A	4	Laboratory Fortified Blank				Run: ICP2-C_090730A			07/30/09 13:00	
Calcium		47.9	mg/L	0.50	96	85	115			
Magnesium		50.0	mg/L	0.50	100	85	115			
Potassium		48.3	mg/L	3.3	97	85	115			
Sodium		44.3	mg/L	0.50	89	85	115			
Sample ID: C09070725-001CMS2	4	Sample Matrix Spike				Run: ICP2-C_090730A			07/30/09 15:08	
Calcium		751	mg/L	1.3	88	70	130			
Magnesium		609	mg/L	1.0	94	70	130			
Potassium		228	mg/L	1.0	86	70	130			
Sodium		417	mg/L	1.2	97	70	130			
Sample ID: C09070725-001CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090730A			07/30/09 15:12	
Calcium		754	mg/L	1.3	89	70	130	0.5	20	
Magnesium		614	mg/L	1.0	96	70	130	0.8	20	
Potassium		233	mg/L	1.0	88	70	130	2	20	
Sodium		418	mg/L	1.2	97	70	130	0.1	20	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121896
Sample ID: MB-090803A	4	Method Blank				Run: ICP2-C_090803A				08/03/09 13:21
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090803A	4	Laboratory Fortified Blank				Run: ICP2-C_090803A				08/03/09 13:25
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		48.9	mg/L	0.50	98	85	115			
Potassium		45.8	mg/L	0.50	92	85	115			
Sodium		49.8	mg/L	0.50	100	85	115			
Sample ID: C09070618-001AMS2	4	Sample Matrix Spike				Run: ICP2-C_090803A				08/03/09 14:25
Calcium		108	mg/L	1.0	104	70	130			
Magnesium		102	mg/L	1.0	100	70	130			
Potassium		95.5	mg/L	1.0	93	70	130			
Sodium		291	mg/L	1.0	100	70	130			
Sample ID: C09070618-001AMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090803A				08/03/09 14:29
Calcium		107	mg/L	1.0	103	70	130	1	20	
Magnesium		99.3	mg/L	1.0	97	70	130	2.7	20	
Potassium		94.8	mg/L	1.0	92	70	130	0.8	20	
Sodium		294	mg/L	1.0	103	70	130	1	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R121194
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_090721A				07/21/09 12:34
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		0.0002	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_090721A				07/21/09 12:41
Aluminum		0.0478	mg/L	0.0022	96	85	115			
Beryllium		0.0485	mg/L	0.0010	97	85	115			
Cadmium		0.0481	mg/L	0.0010	96	85	115			
Cobalt		0.0471	mg/L	0.0010	94	85	115			
Lead		0.0478	mg/L	0.0010	96	85	115			
Manganese		0.0471	mg/L	0.0010	94	85	115			
Molybdenum		0.0484	mg/L	0.0010	97	85	115			
Nickel		0.0474	mg/L	0.0010	95	85	115			
Uranium		0.0484	mg/L	0.00030	97	85	115			
Vanadium		0.0472	mg/L	0.0010	94	85	115			
Sample ID: C09070725-003DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_090721A				07/21/09 19:59
Aluminum		0.230	mg/L	0.10	74	70	130			
Beryllium		0.0433	mg/L	0.010	86	70	130			
Cadmium		0.0479	mg/L	0.010	94	70	130			
Cobalt		0.0702	mg/L	0.010	89	70	130			
Lead		0.0517	mg/L	0.050	103	70	130			
Manganese		1.84	mg/L	0.0010		70	130			A
Molybdenum		0.0556	mg/L	0.0010	111	70	130			
Nickel		0.0816	mg/L	0.050	90	70	130			
Uranium		0.0550	mg/L	0.00030	106	70	130			
Vanadium		0.0540	mg/L	0.0020	93	70	130			
Sample ID: C09070725-003DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090721A				07/21/09 20:06
Aluminum		0.233	mg/L	0.10	78	70	130	0.9	20	
Beryllium		0.0438	mg/L	0.010	87	70	130	1	20	
Cadmium		0.0477	mg/L	0.010	94	70	130	0.4	20	
Cobalt		0.0711	mg/L	0.010	91	70	130	1.3	20	
Lead		0.0521	mg/L	0.050	103	70	130	0.7	20	
Manganese		1.86	mg/L	0.0010		70	130	1.3	20	A
Molybdenum		0.0555	mg/L	0.0010	111	70	130	0.1	20	
Nickel		0.0823	mg/L	0.050	92	70	130	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R121194
Sample ID: C09070725-003DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090721A				07/21/09 20:06
Uranium		0.0558	mg/L	0.00030	108	70	130	1.5	20	
Vanadium		0.0542	mg/L	0.0020	93	70	130	0.4	20	
Method: E200.8										Batch: R121268
Sample ID: LRB	4	Method Blank				Run: ICPMS4-C_090722A				07/22/09 12:34
Cobalt		ND	mg/L	4E-05						
Manganese		ND	mg/L	3E-05						
Nickel		ND	mg/L	6E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	4	Laboratory Fortified Blank				Run: ICPMS4-C_090722A				07/22/09 12:39
Cobalt		0.0530	mg/L	0.0010	106	85	115			
Manganese		0.0530	mg/L	0.0010	106	85	115			
Nickel		0.0533	mg/L	0.0010	107	85	115			
Vanadium		0.0528	mg/L	0.0010	106	85	115			
Sample ID: C09060804-001BMS4	4	Sample Matrix Spike				Run: ICPMS4-C_090722A				07/22/09 13:03
Cobalt		0.0527	mg/L	0.010	105	70	130			
Manganese		0.178	mg/L	0.010	106	70	130			
Nickel		0.0524	mg/L	0.050	104	70	130			
Vanadium		0.0568	mg/L	0.0010	104	70	130			
Sample ID: C09060804-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICPMS4-C_090722A				07/22/09 13:08
Cobalt		0.0521	mg/L	0.010	104	70	130	1.3	20	
Manganese		0.178	mg/L	0.010	106	70	130	0.1	20	
Nickel		0.0520	mg/L	0.050	103	70	130	0.8	20	
Vanadium		0.0566	mg/L	0.0010	104	70	130	0.4	20	
Method: E200.8										Batch: R121494
Sample ID: LRB	2	Method Blank				Run: ICPMS2-C_090727A				07/27/09 12:58
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS2-C_090727A				07/27/09 13:04
Aluminum		0.0519	mg/L	0.0022	104	85	115			
Beryllium		0.0534	mg/L	0.0010	107	85	115			
Sample ID: C09070725-003DMS4	2	Sample Matrix Spike				Run: ICPMS2-C_090727A				07/27/09 21:19
Aluminum		0.694	mg/L	0.10	100	70	130			
Beryllium		0.489	mg/L	0.010	98	70	130			
Sample ID: C09070725-003DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090727A				07/27/09 21:26
Aluminum		0.694	mg/L	0.10	100	70	130	0.1	20	
Beryllium		0.477	mg/L	0.010	95	70	130	2.4	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R121253
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090722A				07/22/09 12:43
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090722A				07/22/09 12:46
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	99	90	110			
Sample ID: C09070725-001GMS		Sample Matrix Spike				Run: TECHNICON_090722A				07/22/09 14:18
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	102	90	110			
Sample ID: C09070725-001GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090722A				07/22/09 14:21
Nitrogen, Nitrate+Nitrite as N		2.06	mg/L	0.10	101	90	110	1.4	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R121420
Sample ID: 072309_LCS_3	9	Laboratory Control Sample				Run: SATURNCA_090723A				07/23/09 12:44
Bromodichloromethane		9.00	ug/L	1.0	90	70	130			
Bromoform		8.72	ug/L	1.0	87	70	130			
Chlorodibromomethane		8.56	ug/L	1.0	86	70	130			
Chloroform		9.80	ug/L	1.0	98	70	130			
Trihalomethanes, Total		36.1	ug/L	1.0	90	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	94	80	120			
Sample ID: 072309_MBLK_6	9	Method Blank				Run: SATURNCA_090723A				07/23/09 14:37
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	108	80	120			
Surr: Dibromofluoromethane				1.0	101	80	120			
Surr: p-Bromofluorobenzene				1.0	99	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: C09070725-001HMS	9	Sample Matrix Spike				Run: SATURNCA_090723A				07/23/09 23:06
Bromodichloromethane		88.0	ug/L	10	88	70	130			
Bromoform		87.2	ug/L	10	87	70	130			
Chlorodibromomethane		107	ug/L	10	107	70	130			
Chloroform		101	ug/L	10	101	70	130			
Trihalomethanes, Total		383	ug/L	10	96	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	113	80	120			
Surr: Dibromofluoromethane				10	99	80	120			
Surr: p-Bromofluorobenzene				10	97	80	120			
Surr: Toluene-d8				10	99	80	120			
Sample ID: C09070725-001HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_090723A				07/23/09 23:44
Bromodichloromethane		96.0	ug/L	10	96	70	130	8.7	20	
Bromoform		87.2	ug/L	10	87	70	130	0	20	
Chlorodibromomethane		102	ug/L	10	102	70	130	4.6	20	
Chloroform		102	ug/L	10	102	70	130	1.2	20	
Trihalomethanes, Total		388	ug/L	10	97	70	130	1.1	20	
Surr: 1,2-Dichlorobenzene-d4				10	104	80	120			
Surr: Dibromofluoromethane				10	95	80	120			
Surr: p-Bromofluorobenzene				10	95	80	120			
Surr: Toluene-d8				10	101	80	120			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0251
Sample ID: MB-GA-0251	3	Method Blank				Run: G5000W_090731A				08/03/09 15:18
Gross Alpha minus Rn & U		1	pCi/L							
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0251		Laboratory Control Sample				Run: G5000W_090731A				08/03/09 15:18
Gross Alpha minus Rn & U		31.2	pCi/L		114	70	130			
Sample ID: C09070704-007DMS		Sample Matrix Spike				Run: G5000W_090731A				08/03/09 15:18
Gross Alpha minus Rn & U		31.6	pCi/L		95	70	130			
Sample ID: C09070704-007DMSD		Sample Matrix Spike Duplicate				Run: G5000W_090731A				08/03/09 15:18
Gross Alpha minus Rn & U		32.1	pCi/L		97	70	130	1.7	22.4	
Method: E903.0										Batch: RA226-3846
Sample ID: C09070704-004DMS		Sample Matrix Spike				Run: BERTHOLD 770-1_090722C				08/04/09 13:33
Radium 226		25	pCi/L		102	70	130			
Sample ID: C09070704-004DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_090722C				08/04/09 13:33
Radium 226		23	pCi/L		87	70	130	9.7	20.8	
Sample ID: MB-RA226-3846	3	Method Blank				Run: BERTHOLD 770-1_090722C				08/04/09 16:12
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3846		Laboratory Control Sample				Run: BERTHOLD 770-1_090722C				08/04/09 16:12
Radium 226		7.3	pCi/L		94	70	130			
Method: E903.0										Batch: RA226-3848
Sample ID: C09070756-001GMS		Sample Matrix Spike				Run: TENNELEC-3_090722F				08/04/09 15:24
Radium 226		14.3	pCi/L		89	70	130			
Sample ID: C09070756-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090722F				08/04/09 15:24
Radium 226		16.2	pCi/L		101	70	130	13	21.8	
Sample ID: MB-RA226-3848	3	Method Blank				Run: TENNELEC-3_090722F				08/04/09 15:24
Radium 226		0.1	pCi/L							
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.09	pCi/L							
Sample ID: LCS-RA226-3848		Laboratory Control Sample				Run: TENNELEC-3_090722F				08/04/09 15:24
Radium 226		8.1	pCi/L		102	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-0859
Sample ID: LCS-RA-TH-ISO-0859		Laboratory Control Sample				Run: EGG-ORTEC_090728A				08/03/09 12:10
Thorium 230		5.04	pCi/L		103	70	130			
Sample ID: C09070725-006FMS		Sample Matrix Spike				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		19.0	pCi/L		116	70	130			
Sample ID: C09070725-006FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		16.9	pCi/L		105	70	130	12	43.5	
Sample ID: MB-RA-TH-ISO-0859	3	Method Blank				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		-0.006	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E909.0M										Batch: R122118
Sample ID: C09060055-009DMS		Sample Matrix Spike				Run: BECKMAN 6100TA_090829A				08/29/09 08:45
Lead 210		110	pCi/L		93	70	130			
Sample ID: C09060055-009DMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_090829A				08/29/09 08:45
Lead 210		98	pCi/L		82	70	130	12	30	
Sample ID: MB-R122118	3	Method Blank				Run: BECKMAN 6100TA_090829A				08/29/09 08:45
Lead 210		2	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R122118		Laboratory Control Sample				Run: BECKMAN 6100TA_090829A				08/29/09 08:45
Lead 210		110	pCi/L		99	70	130			
Method: RA-05										Batch: RA228-2785
Sample ID: LCS-228-RA226-3846		Laboratory Control Sample				Run: TENNELEC-3_090722D				07/28/09 13:43
Radium 228		8.08	pCi/L		103	70	130			
Sample ID: MB-RA226-3846	3	Method Blank				Run: TENNELEC-3_090722D				07/28/09 13:43
Radium 228		-0.7	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070704-005DMS		Sample Matrix Spike				Run: TENNELEC-3_090722D				07/28/09 13:43
Radium 228		40.7	pCi/L		112	70	130			
Sample ID: C09070704-005DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090722D				07/28/09 13:43
Radium 228		41.3	pCi/L		116	70	130	1.4	24.3	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/24/09
Work Order: C09070725

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2787
Sample ID: LCS-228-RA226-3848		Laboratory Control Sample				Run: TENNELEC-3_090722E			07/28/09 15:51	
Radium 228		8.8	pCi/L		105	70	130			
Sample ID: MB-RA226-3848	3	Method Blank				Run: TENNELEC-3_090722E			07/28/09 15:51	
Radium 228		-0.2	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070756-002GMS		Sample Matrix Spike				Run: TENNELEC-3_090722E			07/28/09 15:51	
Radium 228		18	pCi/L		112	70	130			
Sample ID: C09070756-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090722E			07/28/09 15:51	
Radium 228		16	pCi/L		99	70	130	12	36.3	

Qualifiers:

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

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ANALYTICAL SUMMARY REPORT

August 05, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09070425 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corp on 7/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070425-001	613	07/07/09 14:30	07/10/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070425-002	EPA-14	07/07/09 15:05	07/10/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C09070425

Date: *05-Aug-09*

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

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The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R120777
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090713A				07/13/09 11:39
Alkalinity, Total as CaCO3		4	mg/L	0.2						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090713A				07/13/09 12:01
Alkalinity, Total as CaCO3		51.4	mg/L	5.0	94	90	110			
Sample ID: C09070372-001AMS		Sample Matrix Spike				Run: MANTECH_090713A				07/13/09 13:01
Alkalinity, Total as CaCO3		356	mg/L	5.0	95	80	120			
Sample ID: C09070372-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090713A				07/13/09 13:08
Alkalinity, Total as CaCO3		358	mg/L	5.0	97	80	120	0.6	20	
Method: A2540 C										Batch: R120898
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090714E				07/14/09 16:22
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090714E				07/14/09 16:22
Solids, Total Dissolved TDS @ 180 C		994	mg/L	10	99	90	110			
Sample ID: C09070423-008AMS		Sample Matrix Spike				Run: BAL-1_090714E				07/14/09 16:33
Solids, Total Dissolved TDS @ 180 C		2220	mg/L	10	102	90	110			
Sample ID: C09070423-008AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090714E				07/14/09 16:33
Solids, Total Dissolved TDS @ 180 C		2160	mg/L	10	99	90	110	2.7	10	
Method: A3114 B										Batch: SE3114-090803C
Sample ID: MBLK		Method Blank				Run: CVAA-C202_090803C				08/03/09 13:55
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240		Laboratory Control Sample				Run: CVAA-C202_090803C				08/03/09 13:57
Selenium-IV		0.0470	mg/L	0.0010	94	90	110			
Sample ID: C09070417-011DMS		Sample Matrix Spike				Run: CVAA-C202_090803C				08/03/09 14:37
Selenium-IV		0.0505	mg/L	0.0010	101	85	115			
Sample ID: C09070417-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090803C				08/03/09 14:39
Selenium-IV		0.0503	mg/L	0.0010	101	85	115	0.3	10	

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Report Date: 08/05/09
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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 090721-CL-TTR-W	
Sample ID: MBLK9-090721		Method Blank				Run: TITRATION_090721A			07/21/09 09:20	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-090721		Laboratory Control Sample				Run: TITRATION_090721A			07/21/09 10:46	
Chloride		3500	mg/L	1.0	99	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 12:23	
Chloride		406	mg/L	1.0	100	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 12:24	
Chloride		406	mg/L	1.0	100	90	110	0	10	
Method: A4500-H B								Analytical Run: ORION555A-2_090714A		
Sample ID: ICV1_090714_1		Initial Calibration Verification Standard							07/14/09 09:39	
pH		6.87	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090714_1_PH-W_555A-2	
Sample ID: C09070426-002BDUP		Sample Duplicate				Run: ORION555A-2_090714A			07/14/09 10:19	
pH		6.07	s.u.	0.010				1.2	10	
Method: A4500-NH3 G									Batch: R121158	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090721A			07/21/09 09:59	
Nitrogen, Ammonia as N		0.03	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090721A			07/21/09 10:01	
Nitrogen, Ammonia as N		21.3	mg/L	0.20	106	80	120			
Sample ID: C09070370-002DMS		Sample Matrix Spike				Run: TECHNICON_090721A			07/21/09 10:13	
Nitrogen, Ammonia as N		2.19	mg/L	0.050	107	80	120			
Sample ID: C09070370-002DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090721A			07/21/09 10:15	
Nitrogen, Ammonia as N		2.16	mg/L	0.050	106	80	120	1.4	20	
Method: A4500-SO4 E									Batch: 090724_1_SO4-TURB-W	
Sample ID: LCS-1_090724		Laboratory Control Sample				Run: TURB-2_090724A			07/24/09 10:55	
Sulfate		4990	mg/L	59	104	90	110			
Sample ID: MBLK-1_090724		Method Blank				Run: TURB-2_090724A			07/24/09 10:56	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070500-001AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 11:34	
Sulfate		60.4	mg/L	1.0	92	90	110			
Sample ID: C09070500-001AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 11:35	
Sulfate		61.5	mg/L	1.0	97	90	110	1.7	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 090730_1_SO4-TURB-W	
Sample ID: LCS-1_090730		Laboratory Control Sample				Run: TURB-2_090730A			07/30/09 15:01	
Sulfate		4950	mg/L	59	103	90	110			
Sample ID: MBLK-1_090730		Method Blank				Run: TURB-2_090730A			07/30/09 15:02	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070697-005AMS		Sample Matrix Spike				Run: TURB-2_090730A			07/30/09 15:21	
Sulfate		116	mg/L	2.0	106	90	110			
Sample ID: C09070697-005AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090730A			07/30/09 15:22	
Sulfate		116	mg/L	2.0	106	90	110	0	10	
Method: E1632AM									Batch: H_R55209	
Sample ID: AS090722-LCS		Laboratory Control Sample				Run: SUB-H55209			07/22/09 14:39	
Arsenic-III		46.0	ug/L	5.0	92	90	110			
Sample ID: H09070186-016A MS		Sample Matrix Spike				Run: SUB-H55209			07/22/09 14:52	
Arsenic-III		542	ug/L	5.0		80	120			A
Sample ID: MBLK_13r		Method Blank				Run: SUB-H55209			07/22/09 13:43	
Arsenic-III		ND	ug/L	0.3						
Sample ID: H09070186-016A MSD		Sample Matrix Spike Duplicate				Run: SUB-H55209			07/22/09 15:12	
Arsenic-III		266	ug/L	5.0		80	120	1.7	20	A
Method: E200.7									Batch: 23043	
Sample ID: MB-23043		Method Blank				Run: ICP2-C_090720A			07/20/09 20:09	
Aluminum		ND	mg/L	0.08						
Sample ID: LCS3-23043		Laboratory Control Sample				Run: ICP2-C_090720A			07/20/09 20:13	
Aluminum		2.71	mg/L	0.10	108	85	115			
Sample ID: C09070478-001AMS3		Sample Matrix Spike				Run: ICP2-C_090720A			07/20/09 20:42	
Aluminum		5.16	mg/L	0.78	115	70	130			
Sample ID: C09070478-001AMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_090720A			07/20/09 20:46	
Aluminum		5.10	mg/L	0.78	112	70	130	1.2	20	

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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

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121190
Sample ID: MB-090721A	4	Method Blank				Run: ICP2-C_090721A				07/21/09 12:12
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090721A	4	Laboratory Fortified Blank				Run: ICP2-C_090721A				07/21/09 12:16
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		49.6	mg/L	0.50	99	85	115			
Potassium		47.0	mg/L	0.50	94	85	115			
Sodium		45.9	mg/L	0.50	92	85	115			
Sample ID: C09070423-007CMS2	4	Sample Matrix Spike				Run: ICP2-C_090721A				07/21/09 14:29
Calcium		115	mg/L	1.0	94	70	130			
Magnesium		100	mg/L	1.0	98	70	130			
Potassium		98.2	mg/L	1.0	95	70	130			
Sodium		135	mg/L	1.0	98	70	130			
Sample ID: C09070423-007CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090721A				07/21/09 14:33
Calcium		119	mg/L	1.0	98	70	130	2.8	20	
Magnesium		99.4	mg/L	1.0	97	70	130	1.1	20	
Potassium		97.5	mg/L	1.0	94	70	130	0.7	20	
Sodium		137	mg/L	1.0	100	70	130	1.3	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121483
Sample ID: MB-090727A	4	Method Blank				Run: ICP2-C_090727A				07/27/09 13:40
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090727A	4	Laboratory Fortified Blank				Run: ICP2-C_090727A				07/27/09 13:44
Calcium		48.7	mg/L	0.50	97	85	115			
Magnesium		48.6	mg/L	0.50	97	85	115			
Potassium		45.3	mg/L	0.50	91	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Sample ID: C09070417-002CMS2	4	Sample Matrix Spike				Run: ICP2-C_090727A				07/27/09 17:41
Calcium		1140	mg/L	2.5	90	70	130			
Magnesium		921	mg/L	1.0	96	70	130			
Potassium		473	mg/L	1.0	90	70	130			
Sodium		679	mg/L	2.3	101	70	130			
Sample ID: C09070417-002CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090727A				07/27/09 17:45
Calcium		1140	mg/L	2.5	91	70	130	0.4	20	
Magnesium		902	mg/L	1.0	93	70	130	2.1	20	
Potassium		468	mg/L	1.0	90	70	130	1	20	
Sodium		674	mg/L	2.3	100	70	130	0.8	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: E200.8										Batch: 23043
Sample ID: MB-23043	7	Method Blank				Run: ICPMS2-C_090715B				07/15/09 21:53
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	3E-05						
Lead		ND	mg/L	8E-05						
Manganese		0.0004	mg/L	0.0001						
Molybdenum		ND	mg/L	9E-05						
Nickel		0.0001	mg/L	9E-05						
Vanadium		0.02	mg/L	0.002						
Sample ID: LCS3-23043	7	Laboratory Control Sample				Run: ICPMS2-C_090715B				07/15/09 21:59
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.485	mg/L	0.010	97	85	115			
Lead		0.524	mg/L	0.050	105	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.535	mg/L	0.10	107	85	115			
Nickel		0.455	mg/L	0.050	91	85	115			
Vanadium		0.514	mg/L	0.10	98	85	115			
Sample ID: C09070478-001AMS3	7	Sample Matrix Spike				Run: ICPMS2-C_090715B				07/16/09 01:23
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.469	mg/L	0.010	93	70	130			
Lead		0.534	mg/L	0.050	105	70	130			
Manganese		2.54	mg/L	0.010	95	70	130			
Molybdenum		0.720	mg/L	0.10	111	70	130			
Nickel		0.453	mg/L	0.050	90	70	130			
Vanadium		0.529	mg/L	0.10	102	70	130			
Sample ID: C09070478-001AMSD	7	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090715B				07/16/09 01:30
Cadmium		0.250	mg/L	0.010	100	70	130	1.4	20	
Cobalt		0.486	mg/L	0.010	97	70	130	3.6	20	
Lead		0.553	mg/L	0.050	109	70	130	3.5	20	
Manganese		2.61	mg/L	0.010	98	70	130	2.4	20	
Molybdenum		0.740	mg/L	0.10	115	70	130	2.7	20	
Nickel		0.461	mg/L	0.050	92	70	130	1.7	20	
Vanadium		0.542	mg/L	0.10	105	70	130	2.5	20	
Sample ID: MB-23043		Method Blank				Run: ICPMS2-C_090716A				07/17/09 01:30
Beryllium		ND	mg/L	6E-05						
Sample ID: LCS3-23043		Laboratory Control Sample				Run: ICPMS2-C_090716A				07/17/09 01:37
Beryllium		0.287	mg/L	0.010	115	85	115			
Sample ID: C09070478-001AMS3		Sample Matrix Spike				Run: ICPMS2-C_090716A				07/17/09 10:26
Beryllium		0.239	mg/L	0.010	96	70	130			
Sample ID: C09070478-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_090716A				07/17/09 10:33
Beryllium		0.241	mg/L	0.010	96	70	130	0.9	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23043
Sample ID: MB-23043		Method Blank				Run: ICPMS4-C_090805A				08/05/09 12:52
Uranium		ND	mg/L	7E-05						
Sample ID: LCS3-23043		Laboratory Control Sample				Run: ICPMS4-C_090805A				08/05/09 12:57
Uranium		0.530	mg/L	0.00030	106	85	115			
Sample ID: C09070478-001AMS3		Sample Matrix Spike				Run: ICPMS4-C_090805A				08/05/09 13:17
Uranium		0.589	mg/L	0.00030	117	70	130			
Sample ID: C09070478-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_090805A				08/05/09 13:21
Uranium		0.574	mg/L	0.00030	114	70	130	2.6	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R120802
Sample ID: LRB	8	Method Blank				Run: ICPMS2-C_090713A				07/13/09 15:04
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	8	Laboratory Fortified Blank				Run: ICPMS2-C_090713A				07/13/09 15:10
Beryllium		0.0490	mg/L	0.0010	98	85	115			
Cadmium		0.0504	mg/L	0.0010	101	85	115			
Cobalt		0.0504	mg/L	0.0010	101	85	115			
Lead		0.0502	mg/L	0.0010	100	85	115			
Molybdenum		0.0502	mg/L	0.0010	100	85	115			
Nickel		0.0505	mg/L	0.0010	101	85	115			
Uranium		0.0481	mg/L	0.00030	96	85	115			
Vanadium		0.0503	mg/L	0.0010	101	85	115			
Sample ID: C09070423-007CMS4	8	Sample Matrix Spike				Run: ICPMS2-C_090713A				07/13/09 21:14
Beryllium		0.0530	mg/L	0.010	106	70	130			
Cadmium		0.0517	mg/L	0.010	103	70	130			
Cobalt		0.0494	mg/L	0.010	99	70	130			
Lead		0.0509	mg/L	0.050	101	70	130			
Molybdenum		0.0513	mg/L	0.0010	100	70	130			
Nickel		0.0505	mg/L	0.0010	101	70	130			
Uranium		0.0509	mg/L	0.00030	101	70	130			
Vanadium		0.0504	mg/L	0.0010	101	70	130			
Sample ID: C09070423-007CMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090713A				07/13/09 21:20
Beryllium		0.0520	mg/L	0.010	104	70	130	1.7	20	
Cadmium		0.0516	mg/L	0.010	103	70	130	0.2	20	
Cobalt		0.0493	mg/L	0.010	99	70	130	0.1	20	
Lead		0.0507	mg/L	0.050	101	70	130	0.3	20	
Molybdenum		0.0516	mg/L	0.0010	101	70	130	0.6	20	
Nickel		0.0495	mg/L	0.0010	99	70	130	1.9	20	
Uranium		0.0504	mg/L	0.00030	100	70	130	0.8	20	
Vanadium		0.0500	mg/L	0.0010	100	70	130	0.7	20	

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Toll Free 888.235.0515 - 307.235.0515 - Fax 307.234.1639 - casper@energylab.com - www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R121019
Sample ID: LRB		Method Blank				Run: ICPMS4-C_090717A				07/17/09 12:33
Manganese		ND	mg/L	3E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS4-C_090717A				07/17/09 13:03
Manganese		0.0529	mg/L	0.0010	106	85	115			
Sample ID: C09070417-013DMS4		Sample Matrix Spike				Run: ICPMS4-C_090717A				07/17/09 18:09
Manganese		0.856	mg/L	0.010	103	70	130			
Sample ID: C09070417-013DMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_090717A				07/17/09 18:14
Manganese		0.869	mg/L	0.010	108	70	130	1.5	20	
Method: E200.8										Batch: R121194
Sample ID: LRB		Method Blank				Run: ICPMS2-C_090721A				07/21/09 12:34
Aluminum		ND	mg/L	0.002						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_090721A				07/21/09 12:41
Aluminum		0.0478	mg/L	0.0022	96	85	115			
Sample ID: C09070725-003DMS4		Sample Matrix Spike				Run: ICPMS2-C_090721A				07/21/09 19:59
Aluminum		0.230	mg/L	0.10	74	70	130			
Sample ID: C09070725-003DMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_090721A				07/21/09 20:06
Aluminum		0.233	mg/L	0.10	78	70	130	0.9	20	
Method: E353.2										Batch: R121253
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_090722A				07/22/09 12:43
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_090722A				07/22/09 12:46
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	99	90	110			
Sample ID: C09070693-004AMS		Sample Matrix Spike				Run: TECHNICON_090722A				07/22/09 13:38
Nitrogen, Nitrate+Nitrite as N		2.39	mg/L	0.10	96	90	110			
Sample ID: C09070693-004AMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_090722A				07/22/09 13:41
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	100	90	110	3.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R120853
Sample ID: 14-Jul-09_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_090714A				07/14/09 11:42
Bromodichloromethane		8.28	ug/L	1.0	83	70	130			
Bromoform		10.2	ug/L	1.0	102	70	130			
Chlorodibromomethane		9.36	ug/L	1.0	94	70	130			
Chloroform		8.00	ug/L	1.0	80	70	130			
Trihalomethanes, Total		35.8	ug/L	1.0	90	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	80	80	120			
Surr: p-Bromofluorobenzene				1.0	89	80	120			
Surr: Toluene-d8				1.0	109	80	120			
Sample ID: 14-Jul-09_MBLK_8	9	Method Blank				Run: 5975VOC1_090714A				07/14/09 14:40
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	110	80	120			
Surr: Dibromofluoromethane				1.0	86	80	120			
Surr: p-Bromofluorobenzene				1.0	90	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: C09070426-002GMS	9	Sample Matrix Spike				Run: 5975VOC1_090714A				07/14/09 20:38
Bromodichloromethane		95.6	ug/L	10	96	70	130			
Bromoform		94.8	ug/L	10	95	70	130			
Chlorodibromomethane		97.6	ug/L	10	98	70	130			
Chloroform		184	ug/L	10	112	70	130			
Trihalomethanes, Total		472	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	104	80	120			
Surr: Dibromofluoromethane				10	98	80	120			
Surr: p-Bromofluorobenzene				10	102	80	120			
Surr: Toluene-d8				10	111	80	120			
Sample ID: C09070426-002GMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_090714A				07/14/09 21:14
Bromodichloromethane		95.6	ug/L	10	96	70	130	0	20	
Bromoform		98.4	ug/L	10	98	70	130	3.7	20	
Chlorodibromomethane		102	ug/L	10	102	70	130	4	20	
Chloroform		182	ug/L	10	109	70	130	1.3	20	
Trihalomethanes, Total		477	ug/L	10	101	70	130	1.1	20	
Surr: 1,2-Dichlorobenzene-d4				10	106	80	120			
Surr: Dibromofluoromethane				10	96	80	120			
Surr: p-Bromofluorobenzene				10	100	80	120			
Surr: Toluene-d8				10	110	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0249
Sample ID: MB-GA-0249	3	Method Blank				Run: G5000W_090724A				07/27/09 14:00
Gross Alpha minus Rn & U		0.4	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0249		Laboratory Control Sample				Run: G5000W_090724A				07/27/09 14:00
Gross Alpha minus Rn & U		24.8	pCi/L		92	70	130			
Sample ID: C09070423-009DMS		Sample Matrix Spike				Run: G5000W_090724A				07/27/09 17:58
Gross Alpha minus Rn & U		63.6	pCi/L		113	70	130			
Sample ID: C09070423-009DMSD		Sample Matrix Spike Duplicate				Run: G5000W_090724A				07/27/09 17:58
Gross Alpha minus Rn & U		57.8	pCi/L		91	70	130	9.5	18.1	
Method: E903.0										Batch: RA226-3825
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		14	pCi/L		85	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		15	pCi/L		95	70	130	12	26	
Sample ID: MB-RA226-3825	3	Method Blank				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		-0.08	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3825		Laboratory Control Sample				Run: BERTHOLD 770-2_090714B				07/28/09 22:04
Radium 226		7.4	pCi/L		95	70	130			
Method: E907.0										Batch: RA-TH-ISO-0853
Sample ID: LCS-RA-TH-ISO-0853		Laboratory Control Sample				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		5.18	pCi/L		105	70	130			
Sample ID: C09070426-004EMS		Sample Matrix Spike				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		21.7	pCi/L		88	70	130			
Sample ID: C09070426-004EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		26.5	pCi/L		107	70	130	20	45.3	
Sample ID: MB-RA-TH-ISO-0853	3	Method Blank				Run: EGG-ORTEC_090720C				07/24/09 10:49
Thorium 230		0.04	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R121681
Sample ID: C09040055-001AMS		Sample Matrix Spike				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		130	pCi/L		113	70	130			
Sample ID: C09040055-001AMSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		140	pCi/L		124	70	130	9	30	
Sample ID: MB-R121681	3	Method Blank				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		3	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R121681		Laboratory Control Sample				Run: PACKARD 3100TR_090720C				07/20/09 09:54
Lead 210		510	pCi/L		89	70	130			
Method: RA-05										Batch: RA228-2773
Sample ID: LCS-228-RA226-3825		Laboratory Control Sample				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		8.4	pCi/L		100	70	130			
Sample ID: MB-RA226-3825	3	Method Blank				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		-0.08	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		14	pCi/L		82	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090714I				07/23/09 13:59
Radium 228		14	pCi/L		85	70	130	3	42.9	

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ANALYTICAL SUMMARY REPORT

September 09, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09070701 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 9 samples for United Nuclear Corp on 7/17/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070701-001	708	07/13/09 13:45	07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070701-002	711	07/13/09 14:45	07/17/09	Aqueous	Same As Above
C09070701-003	711 Duplicate	07/13/09 15:40	07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070701-004	EPA-13	07/14/09 08:50	07/17/09	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

C09070701-005 504-B	07/14/09 09:30 07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070701-006 719	07/14/09 10:25 07/17/09	Aqueous	Same As Above
C09070701-007 420	07/14/09 11:05 07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09070701-008 717	07/14/09 11:45 07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics

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ANALYTICAL SUMMARY REPORT

C09070701-009 NBL-1	07/14/09 13:35 07/17/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C09070701

Date: 09-Sep-09

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

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.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R121118
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090720A				07/20/09 14:48
Alkalinity, Total as CaCO3		2	mg/L	0.2						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_090720A				07/20/09 15:02
Alkalinity, Total as CaCO3		199	mg/L	5.0	99	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090720A				07/20/09 15:09
Alkalinity, Total as CaCO3		51.5	mg/L	5.0	99	90	110			
Sample ID: C09070704-001BMS		Sample Matrix Spike				Run: MANTECH_090720A				07/20/09 22:25
Alkalinity, Total as CaCO3		220	mg/L	5.0	95	80	120			
Sample ID: C09070704-001BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090720A				07/20/09 22:33
Alkalinity, Total as CaCO3		220	mg/L	5.0	95	80	120	0.1	20	
Method: A2320 B										Batch: R121197
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090721A				07/21/09 11:11
Alkalinity, Total as CaCO3		3	mg/L	0.2						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:26
Alkalinity, Total as CaCO3		200	mg/L	5.0	98	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:33
Alkalinity, Total as CaCO3		51.3	mg/L	5.0	97	90	110			
Sample ID: C09070704-003BMS		Sample Matrix Spike				Run: MANTECH_090721A				07/21/09 12:19
Alkalinity, Total as CaCO3		333	mg/L	5.0	103	80	120			
Sample ID: C09070704-003BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090721A				07/21/09 12:27
Alkalinity, Total as CaCO3		329	mg/L	5.0	100	80	120	1.3	20	
Method: A2540 C										Batch: 090721_1_SLDS-TDS-W
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090721B				07/21/09 11:22
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090721B				07/21/09 11:22
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C09070701-006BMS		Sample Matrix Spike				Run: BAL-1_090721B				07/21/09 11:30
Solids, Total Dissolved TDS @ 180 C		7190	mg/L	10	105	90	110			
Sample ID: C09070701-006BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090721B				07/21/09 11:30
Solids, Total Dissolved TDS @ 180 C		7170	mg/L	10	104	90	110	0.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-090804B	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_090804B			08/04/09 11:57	
Selenium-IV		0.0004	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 7240		Laboratory Control Sample				Run: CVAA-C202_090804B			08/04/09 12:00	
Selenium-IV		0.0494	mg/L	0.0010	98	90	110			
Sample ID: C09070701-009DMS		Sample Matrix Spike				Run: CVAA-C202_090804B			08/04/09 12:47	
Selenium-IV		0.0456	mg/L	0.0010	90	85	115			
Sample ID: C09070701-009DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_090804B			08/04/09 12:49	
Selenium-IV		0.0464	mg/L	0.0010	92	85	115	1.6	10	
Method: A4500-Cl B									Batch: 090721-CL-TTR-W	
Sample ID: MBLK9-090721		Method Blank				Run: TITRATION_090721A			07/21/09 09:20	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-090721		Laboratory Control Sample				Run: TITRATION_090721A			07/21/09 10:46	
Chloride		3500	mg/L	1.0	99	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 12:23	
Chloride		406	mg/L	1.0	100	90	110			
Sample ID: C09070417-016BMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 12:24	
Chloride		406	mg/L	1.0	100	90	110	0	10	
Sample ID: C09070701-006AMS		Sample Matrix Spike				Run: TITRATION_090721A			07/21/09 14:17	
Chloride		119	mg/L	1.0	98	90	110			
Sample ID: C09070701-006AMS		Sample Matrix Spike Duplicate				Run: TITRATION_090721A			07/21/09 14:19	
Chloride		119	mg/L	1.0	98	90	110	0	10	
Method: A4500-Cl B									Batch: 090803-CL-TTR-W	
Sample ID: MBLK9-090803		Method Blank				Run: TITRATION_090803C			08/03/09 15:07	
Chloride		ND	mg/L	0.4						
Sample ID: C09070370-004AMS		Sample Matrix Spike				Run: TITRATION_090803C			08/03/09 15:40	
Chloride		198	mg/L	1.0	97	90	110			
Sample ID: C09070370-004AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_090803C			08/03/09 15:41	
Chloride		200	mg/L	1.0	98	90	110	0.9	10	
Sample ID: LCS35-090803		Laboratory Control Sample				Run: TITRATION_090803C			08/03/09 16:34	
Chloride		3540	mg/L	1.0	100	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_090720A		
Sample ID: ICV1_090720_1		Initial Calibration Verification Standard							07/20/09 13:34	
pH		6.89	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 090720_1_PH-W_555A-2		
Sample ID: C09070701-005ADUP		Sample Duplicate				Run: ORION555A-2_090720A			07/20/09 13:55	
pH		3.68	s.u.	0.010				0.3	10	
Method: A4500-SO4 E								Batch: 090724_1_SO4-TURB-W		
Sample ID: LCS-1_090724		Laboratory Control Sample				Run: TURB-2_090724A			07/24/09 10:55	
Sulfate		4990	mg/L	59	104	90	110			
Sample ID: MBLK-1_090724		Method Blank				Run: TURB-2_090724A			07/24/09 10:56	
Sulfate		ND	mg/L	0.6						
Sample ID: C09070701-001AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 12:06	
Sulfate		9440	mg/L	150	109	90	110			
Sample ID: C09070701-001AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 12:07	
Sulfate		9310	mg/L	150	106	90	110	1.4	10	
Sample ID: C09070701-007AMS		Sample Matrix Spike				Run: TURB-2_090724A			07/24/09 12:43	
Sulfate		4120	mg/L	59	108	90	110			
Sample ID: C09070701-007AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090724A			07/24/09 12:43	
Sulfate		4050	mg/L	59	104	90	110	1.8	10	
Method: A4500-SO4 E								Batch: 090803_1_SO4-TURB-W		
Sample ID: LCS-1_090803		Laboratory Control Sample				Run: TURB-2_090803A			08/03/09 14:29	
Sulfate		5220	mg/L	59	109	90	110			
Sample ID: MBLK-1_090803		Method Blank				Run: TURB-2_090803A			08/03/09 15:08	
Sulfate		0.6	mg/L	0.6						
Sample ID: C09071267-004AMS		Sample Matrix Spike				Run: TURB-2_090803A			08/03/09 16:36	
Sulfate		23.0	mg/L	1.0	97	90	110			
Sample ID: C09071267-004AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090803A			08/03/09 16:38	
Sulfate		23.0	mg/L	1.0	97	90	110	0	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R55259
Sample ID: MBLK_13r		Method Blank				Run: SUB-H55259				07/23/09 11:45
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS090723-LCS		Laboratory Control Sample				Run: SUB-H55259				07/23/09 11:52
Arsenic-III		45.2	ug/L	5.0	90	90	110			
Sample ID: H09070184-015H MS		Sample Matrix Spike				Run: SUB-H55259				07/23/09 14:53
Arsenic-III		48.2	ug/L	5.0	96	80	120			
Sample ID: H09070184-015H MSD		Sample Matrix Spike Duplicate				Run: SUB-H55259				07/23/09 15:00
Arsenic-III		51.2	ug/L	5.0	102	80	120	6	20	
Method: E200.7										Batch: 23128
Sample ID: MB-23128	3	Method Blank				Run: ICP2-C_090722A				07/23/09 02:03
Aluminum		ND	mg/L	0.08						
Manganese		ND	mg/L	0.007						
Nickel		ND	mg/L	0.010						
Sample ID: LCS3-23128	3	Laboratory Control Sample				Run: ICP2-C_090722A				07/23/09 02:07
Aluminum		2.48	mg/L	0.10	99	85	115			
Manganese		2.50	mg/L	0.010	100	85	115			
Nickel		0.511	mg/L	0.050	102	85	115			
Sample ID: C09070780-001AMS3	3	Sample Matrix Spike				Run: ICP2-C_090722A				07/23/09 03:00
Aluminum		2.73	mg/L	0.16	109	70	130			
Manganese		2.61	mg/L	0.013	105	70	130			
Nickel		0.523	mg/L	0.050	105	70	130			
Sample ID: C09070780-001AMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_090722A				07/23/09 03:04
Aluminum		2.59	mg/L	0.16	104	70	130	5.4	20	
Manganese		2.52	mg/L	0.013	101	70	130	3.5	20	
Nickel		0.512	mg/L	0.050	102	70	130	2.2	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121632
Sample ID: MB-090729A	4	Method Blank				Run: ICP2-C_090729A				07/29/09 13:21
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-090729A	4	Laboratory Fortified Blank				Run: ICP2-C_090729A				07/29/09 13:25
Calcium		49.3	mg/L	0.50	99	85	115			
Magnesium		48.1	mg/L	0.50	96	85	115			
Potassium		44.5	mg/L	0.50	89	85	115			
Sodium		45.7	mg/L	0.50	91	85	115			
Sample ID: C09070701-005CMS2	4	Sample Matrix Spike				Run: ICP2-C_090729A				07/29/09 15:38
Calcium		707	mg/L	1.3	91	70	130			
Magnesium		839	mg/L	1.0	95	70	130			
Potassium		235	mg/L	1.0	88	70	130			
Sodium		390	mg/L	1.2	95	70	130			
Sample ID: C09070701-005CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090729A				07/29/09 15:42
Calcium		719	mg/L	1.3	96	70	130	1.6	20	
Magnesium		837	mg/L	1.0	94	70	130	0.2	20	
Potassium		237	mg/L	1.0	88	70	130	0.8	20	
Sodium		396	mg/L	1.2	98	70	130	1.7	20	
Method: E200.7										Batch: R121700
Sample ID: MB-090730A		Method Blank				Run: ICP2-C_090730A				07/30/09 12:56
Aluminum		ND	mg/L	0.03						
Sample ID: LFB-090730A		Laboratory Fortified Blank				Run: ICP2-C_090730A				07/30/09 13:00
Aluminum		0.947	mg/L	0.10	95	85	115			
Sample ID: C09070856-002BMS2		Sample Matrix Spike				Run: ICP2-C_090730A				07/30/09 18:42
Aluminum		5.05	mg/L	0.16	99	70	130			
Sample ID: C09070856-002BMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_090730A				07/30/09 18:46
Aluminum		5.05	mg/L	0.16	99	70	130	0	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R121757
Sample ID: MB-090731A	4	Method Blank				Run: ICP2-C_090731A				07/31/09 11:28
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-090731A	4	Laboratory Fortified Blank				Run: ICP2-C_090731A				07/31/09 11:32
Calcium		48.5	mg/L	0.50	97	85	115			
Magnesium		49.4	mg/L	0.50	99	85	115			
Potassium		43.7	mg/L	0.50	87	85	115			
Sodium		45.9	mg/L	0.50	92	85	115			
Sample ID: C09070701-003CMS2	4	Sample Matrix Spike				Run: ICP2-C_090731A				07/31/09 18:37
Calcium		975	mg/L	2.5	97	70	130			
Magnesium		941	mg/L	1.0	96	70	130			
Potassium		474	mg/L	1.0	91	70	130			
Sodium		575	mg/L	2.3	95	70	130			
Sample ID: C09070701-003CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_090731A				07/31/09 18:41
Calcium		988	mg/L	2.5	99	70	130	1.4	20	
Magnesium		926	mg/L	1.0	93	70	130	1.6	20	
Potassium		472	mg/L	1.0	90	70	130	0.5	20	
Sodium		577	mg/L	2.3	95	70	130	0.4	20	
Method: E200.7										Batch: R122159
Sample ID: LFB-090810A		Laboratory Fortified Blank				Run: ICP2-C_090810A				08/10/09 12:36
Manganese		0.947	mg/L	0.010	95	85	115			
Sample ID: MB-090810A		Method Blank				Run: ICP2-C_090810A				08/10/09 12:42
Manganese		ND	mg/L	0.001						
Sample ID: C09070697-006BMS2		Sample Matrix Spike				Run: ICP2-C_090810A				08/10/09 16:12
Manganese		1.97	mg/L	0.010	96	70	130			
Sample ID: C09070697-006BMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_090810A				08/10/09 16:16
Manganese		1.96	mg/L	0.010	96	70	130	0.6	20	

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QA/QC Summary Report

Client: United Nuclear Corp
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Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23128
Sample ID: MB-23128	7	Method Blank				Run: ICPMS2-C_090723A				07/23/09 17:05
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	3E-05						
Lead		ND	mg/L	8E-05						
Manganese		0.0004	mg/L	0.0001						
Molybdenum		0.0001	mg/L	9E-05						
Nickel		0.0001	mg/L	9E-05						
Vanadium		ND	mg/L	0.002						
Sample ID: LCS3-23128	7	Laboratory Control Sample				Run: ICPMS2-C_090723A				07/23/09 17:12
Cadmium		0.261	mg/L	0.010	104	85	115			
Cobalt		0.505	mg/L	0.010	101	85	115			
Lead		0.538	mg/L	0.050	108	85	115			
Manganese		2.57	mg/L	0.010	103	85	115			
Molybdenum		0.525	mg/L	0.10	105	85	115			
Nickel		0.486	mg/L	0.050	97	85	115			
Vanadium		0.508	mg/L	0.10	102	85	115			
Sample ID: C09070780-001AMS3	7	Sample Matrix Spike				Run: ICPMS2-C_090723A				07/23/09 19:13
Cadmium		0.266	mg/L	0.010	106	70	130			
Cobalt		0.534	mg/L	0.010	107	70	130			
Lead		0.530	mg/L	0.050	105	70	130			
Manganese		2.75	mg/L	0.010	109	70	130			
Molybdenum		0.528	mg/L	0.10	103	70	130			
Nickel		0.508	mg/L	0.050	100	70	130			
Vanadium		0.524	mg/L	0.10	105	70	130			
Sample ID: C09070780-001AMSD	7	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090723A				07/23/09 19:20
Cadmium		0.261	mg/L	0.010	104	70	130	1.9	20	
Cobalt		0.527	mg/L	0.010	105	70	130	1.3	20	
Lead		0.523	mg/L	0.050	103	70	130	1.3	20	
Manganese		2.68	mg/L	0.010	107	70	130	2.6	20	
Molybdenum		0.516	mg/L	0.10	101	70	130	2.2	20	
Nickel		0.494	mg/L	0.050	97	70	130	2.7	20	
Vanadium		0.517	mg/L	0.10	103	70	130	1.5	20	
Sample ID: MB-23128	3	Method Blank				Run: ICPMS2-C_090728A				07/28/09 13:44
Aluminum		ND	mg/L	0.006						
Beryllium		ND	mg/L	6E-05						
Uranium		ND	mg/L	6E-05						
Sample ID: LCS3-23128	3	Laboratory Control Sample				Run: ICPMS2-C_090728A				07/28/09 13:50
Aluminum		2.59	mg/L	0.10	104	85	115			
Beryllium		0.260	mg/L	0.010	104	85	115			
Uranium		0.574	mg/L	0.00030	115	85	115			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 23128
Sample ID: C09070780-001AMS3	3	Sample Matrix Spike				Run: ICPMS2-C_090728A				07/28/09 15:25
Aluminum		2.82	mg/L	0.10	110	70	130			
Beryllium		0.265	mg/L	0.010	106	70	130			
Uranium		0.554	mg/L	0.00058	111	70	130			
Sample ID: C09070780-001AMSD	3	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090728A				07/28/09 15:32
Aluminum		2.81	mg/L	0.10	109	70	130	0.3	20	
Beryllium		0.261	mg/L	0.010	104	70	130	1.7	20	
Uranium		0.553	mg/L	0.00058	110	70	130	0.3	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R121194
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_090721A				07/21/09 12:34
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		0.0002	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_090721A				07/21/09 12:41
Aluminum		0.0478	mg/L	0.0022	96	85	115			
Beryllium		0.0485	mg/L	0.0010	97	85	115			
Cadmium		0.0481	mg/L	0.0010	96	85	115			
Cobalt		0.0471	mg/L	0.0010	94	85	115			
Lead		0.0478	mg/L	0.0010	96	85	115			
Manganese		0.0471	mg/L	0.0010	94	85	115			
Molybdenum		0.0484	mg/L	0.0010	97	85	115			
Nickel		0.0474	mg/L	0.0010	95	85	115			
Uranium		0.0484	mg/L	0.00030	97	85	115			
Vanadium		0.0472	mg/L	0.0010	94	85	115			
Sample ID: C09070701-002DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_090721A				07/21/09 18:38
Aluminum		0.301	mg/L	0.10		70	130			A
Beryllium		0.0462	mg/L	0.010	88	70	130			
Cadmium		0.0467	mg/L	0.010	93	70	130			
Cobalt		0.354	mg/L	0.010		70	130			A
Lead		0.0500	mg/L	0.0010	98	70	130			
Manganese		5.51	mg/L	0.010		70	130			A
Molybdenum		0.167	mg/L	0.10	110	70	130			
Nickel		0.334	mg/L	0.050		70	130			A
Uranium		0.0694	mg/L	0.00030	105	70	130			
Vanadium		0.0492	mg/L	0.0020	98	70	130			
Sample ID: C09070701-002DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090721A				07/21/09 18:45
Aluminum		0.307	mg/L	0.10		70	130	2	20	A
Beryllium		0.0463	mg/L	0.010	88	70	130	0.2	20	
Cadmium		0.0466	mg/L	0.010	92	70	130	0.3	20	
Cobalt		0.355	mg/L	0.010		70	130	0.3	20	A
Lead		0.0505	mg/L	0.0010	99	70	130	1	20	
Manganese		5.53	mg/L	0.010		70	130	0.4	20	A
Molybdenum		0.163	mg/L	0.10	102	70	130	2.5	20	
Nickel		0.337	mg/L	0.050		70	130	1	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R121194
Sample ID: C09070701-002DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_090721A			07/21/09 18:45	
Uranium		0.0706	mg/L	0.00030	107	70	130	1.7	20	
Vanadium		0.0495	mg/L	0.0020	99	70	130	0.7	20	
Method: E350.1									Analytical Run: SUB-B133025	
Sample ID: ICV		Initial Calibration Verification Standard							07/21/09 09:56	
Nitrogen, Ammonia as N		5.56	mg/L	0.11	101	90	110			
Method: E350.1										Batch: B_R133025
Sample ID: MBLK		Method Blank				Run: SUB-B133025			07/21/09 09:57	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-B133025			07/21/09 09:58	
Nitrogen, Ammonia as N		1.01	mg/L	0.050	102	90	110			
Sample ID: B09071652-001DMS		Sample Matrix Spike				Run: SUB-B133025			07/21/09 10:33	
Nitrogen, Ammonia as N		0.952	mg/L	0.050	92	90	110			
Sample ID: B09071652-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-B133025			07/21/09 10:34	
Nitrogen, Ammonia as N		0.953	mg/L	0.050	92	90	110	0.1	10	
Sample ID: B09071821-001IMS		Sample Matrix Spike				Run: SUB-B133025			07/21/09 11:44	
Nitrogen, Ammonia as N		1.48	mg/L	0.050	62	90	110			S
Sample ID: B09071821-001IMSD		Sample Matrix Spike Duplicate				Run: SUB-B133025			07/21/09 11:45	
Nitrogen, Ammonia as N		1.49	mg/L	0.050	63	90	110	0.7	10	S
Sample ID: B09071821-009IMS		Sample Matrix Spike				Run: SUB-B133025			07/21/09 11:58	
Nitrogen, Ammonia as N		5.04	mg/L	0.050	61	90	110			S
Sample ID: B09071821-009IMSD		Sample Matrix Spike Duplicate				Run: SUB-B133025			07/21/09 11:59	
Nitrogen, Ammonia as N		5.02	mg/L	0.050	59	90	110	0.4	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.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E350.1									Analytical Run: SUB-B133113	
Sample ID: ICV		Initial Calibration Verification Standard							07/22/09 11:15	
Nitrogen, Ammonia as N		5.49	mg/L	0.11	100	90	110			
Method: E350.1									Batch: B_R133113	
Sample ID: MBLK		Method Blank				Run: SUB-B133113			07/22/09 11:16	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-B133113			07/22/09 11:17	
Nitrogen, Ammonia as N		1.03	mg/L	0.050	104	90	110			
Sample ID: B09071922-001BMS		Sample Matrix Spike				Run: SUB-B133113			07/22/09 12:06	
Nitrogen, Ammonia as N		1.89	mg/L	0.050	100	90	110			
Sample ID: B09071922-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B133113			07/22/09 12:07	
Nitrogen, Ammonia as N		1.85	mg/L	0.050	96	90	110	2.4	10	
Method: E353.2									Analytical Run: SUB-B133042	
Sample ID: ICV		Initial Calibration Verification Standard							07/21/09 12:22	
Nitrogen, Nitrate+Nitrite as N		37.0	mg/L	0.032	104	90	110			
Method: E353.2									Batch: B_R133042	
Sample ID: MBLK		Method Blank				Run: SUB-B133042			07/21/09 12:24	
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.002						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-B133042			07/21/09 12:25	
Nitrogen, Nitrate+Nitrite as N		0.998	mg/L	0.010	102	90	110			
Sample ID: C09070704-007G		Sample Matrix Spike				Run: SUB-B133042			07/21/09 12:47	
Nitrogen, Nitrate+Nitrite as N		0.963	mg/L	0.010	98	90	110			
Sample ID: C09070704-007G		Sample Matrix Spike Duplicate				Run: SUB-B133042			07/21/09 12:49	
Nitrogen, Nitrate+Nitrite as N		0.966	mg/L	0.010	98	90	110	0.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2									Analytical Run: SUB-B133115	
Sample ID: ICV		Initial Calibration Verification Standard							07/22/09 11:28	
Nitrogen, Nitrate+Nitrite as N		36.9	mg/L	0.032	104	90	110			
Method: E353.2									Batch: B_R133115	
Sample ID: MBLK		Method Blank				Run: SUB-B133115			07/22/09 11:29	
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.002						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-B133115			07/22/09 11:30	
Nitrogen, Nitrate+Nitrite as N		1.01	mg/L	0.010	103	90	110			
Sample ID: B09071837-001BMS		Sample Matrix Spike				Run: SUB-B133115			07/22/09 11:36	
Nitrogen, Nitrate+Nitrite as N		1.01	mg/L	0.010	102	90	110			
Sample ID: B09071837-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B133115			07/22/09 11:37	
Nitrogen, Nitrate+Nitrite as N		1.01	mg/L	0.010	101	90	110	0.3	10	
Sample ID: B09071863-001AMS		Sample Matrix Spike				Run: SUB-B133115			07/22/09 16:23	
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	104	90	110			
Sample ID: B09071863-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-B133115			07/22/09 16:25	
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.010	104	90	110	0.3	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R121198
Sample ID: 21-Jul-09_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_090721A				07/21/09 11:31
Bromodichloromethane		9.20	ug/L	1.0	92	70	130			
Bromoform		9.04	ug/L	1.0	90	70	130			
Chlorodibromomethane		9.60	ug/L	1.0	96	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		38.1	ug/L	1.0	95	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	95	80	120			
Surr: p-Bromofluorobenzene				1.0	98	80	120			
Surr: Toluene-d8				1.0	112	80	120			
Sample ID: 21-Jul-09_MBLK_6	9	Method Blank				Run: 5975VOC1_090721A				07/21/09 13:18
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	113	80	120			
Surr: Dibromofluoromethane				1.0	92	80	120			
Surr: p-Bromofluorobenzene				1.0	90	80	120			
Surr: Toluene-d8				1.0	104	80	120			
Sample ID: C09070701-009HMS	9	Sample Matrix Spike				Run: 5975VOC1_090721A				07/21/09 18:21
Bromodichloromethane		100	ug/L	10	100	70	130			
Bromoform		112	ug/L	10	112	70	130			
Chlorodibromomethane		102	ug/L	10	102	70	130			
Chloroform		120	ug/L	10	120	70	130			
Trihalomethanes, Total		434	ug/L	10	108	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	119	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	102	80	120			
Surr: Toluene-d8				10	105	80	120			
Sample ID: C09070701-009HMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_090721A				07/21/09 18:57
Bromodichloromethane		97.2	ug/L	10	97	70	130	3.2	20	
Bromoform		107	ug/L	10	107	70	130	4.8	20	
Chlorodibromomethane		98.8	ug/L	10	99	70	130	3.2	20	
Chloroform		114	ug/L	10	114	70	130	5.1	20	
Trihalomethanes, Total		416	ug/L	10	104	70	130	4.1	20	
Surr: 1,2-Dichlorobenzene-d4				10	116	80	120			
Surr: Dibromofluoromethane				10	104	80	120			
Surr: p-Bromofluorobenzene				10	102	80	120			
Surr: Toluene-d8				10	105	80	120			

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QA/QC Summary Report

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Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R121264
Sample ID: 072209_LCS_3	9	Laboratory Control Sample				Run: SATURNCA_090722A				07/22/09 10:58
Bromodichloromethane		8.88	ug/L	1.0	89	70	130			
Bromoform		8.88	ug/L	1.0	89	70	130			
Chlorodibromomethane		9.60	ug/L	1.0	96	70	130			
Chloroform		9.56	ug/L	1.0	96	70	130			
Trihalomethanes, Total		36.9	ug/L	1.0	92	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	98	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	97	80	120			
Sample ID: 072209_MBLK_6	9	Method Blank				Run: SATURNCA_090722A				07/22/09 12:53
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	107	80	120			
Surr: p-Bromofluorobenzene				1.0	94	80	120			
Surr: Toluene-d8				1.0	99	80	120			
Sample ID: C09070701-009HMS	9	Sample Matrix Spike				Run: SATURNCA_090722A				07/22/09 18:36
Bromodichloromethane		97.2	ug/L	10	97	70	130			
Bromoform		84.8	ug/L	10	85	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		118	ug/L	10	118	70	130			
Trihalomethanes, Total		399	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	107	80	120			
Surr: Dibromofluoromethane				10	116	80	120			
Surr: p-Bromofluorobenzene				10	102	80	120			
Surr: Toluene-d8				10	100	80	120			
Sample ID: C09070701-009HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_090722A				07/22/09 19:14
Bromodichloromethane		108	ug/L	10	108	70	130	11	20	
Bromoform		97.6	ug/L	10	98	70	130	14	20	
Chlorodibromomethane		118	ug/L	10	118	70	130	18	20	
Chloroform		120	ug/L	10	120	70	130	1	20	
Trihalomethanes, Total		444	ug/L	10	111	70	130	11	20	
Surr: 1,2-Dichlorobenzene-d4				10	108	80	120			
Surr: Dibromofluoromethane				10	112	80	120			
Surr: p-Bromofluorobenzene				10	107	80	120			
Surr: Toluene-d8				10	105	80	120			

Qualifiers:

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0250
Sample ID: MB-GA-0250	3	Method Blank				Run: TENNELEC-3_090728D				07/31/09 14:53
Gross Alpha minus Rn & U		0.4	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0250		Laboratory Control Sample				Run: TENNELEC-3_090728D				07/31/09 14:53
Gross Alpha minus Rn & U		27.1	pCi/L		102	70	130			
Sample ID: C09070701-006GMS		Sample Matrix Spike				Run: TENNELEC-3_090728D				07/31/09 14:53
Gross Alpha minus Rn & U		32.1	pCi/L		96	70	130			
Sample ID: C09070701-006GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090728D				07/31/09 14:53
Gross Alpha minus Rn & U		32.0	pCi/L		96	70	130	0.1	22.4	
Method: E903.0										Batch: RA226-3840
Sample ID: C09070587-001CMS		Sample Matrix Spike				Run: BERTHOLD 770-1_090721B				08/04/09 08:36
Radium 226		15	pCi/L		93	70	130			
Sample ID: C09070587-001CMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_090721B				08/04/09 08:36
Radium 226		14	pCi/L		92	70	130	0.9	24.7	
Sample ID: MB-RA226-3840	3	Method Blank				Run: BERTHOLD 770-1_090721B				08/04/09 10:08
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3840		Laboratory Control Sample				Run: BERTHOLD 770-1_090721B				08/04/09 10:08
Radium 226		6.5	pCi/L		86	70	130			
Method: E903.0										Batch: RA226-3841
Sample ID: C09070701-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-1_090721A				07/29/09 09:47
Radium 226		25	pCi/L		95	70	130			
Sample ID: C09070701-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_090721A				07/29/09 09:47
Radium 226		26	pCi/L		99	70	130	2.5	21.2	
Sample ID: MB-RA226-3841	3	Method Blank				Run: BERTHOLD 770-1_090721A				07/29/09 11:43
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3841		Laboratory Control Sample				Run: BERTHOLD 770-1_090721A				07/29/09 11:43
Radium 226		7.1	pCi/L		93	70	130			

Qualifiers:

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U - Not detected at minimum detectable concentration

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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: E903.0										Batch: RA226-3845
Sample ID: C09070704-002DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_090722A				08/04/09 12:08
Radium 226		16	pCi/L		95	70	130			
Sample ID: C09070704-002DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_090722A				08/04/09 13:41
Radium 226		15	pCi/L		90	70	130	4.2	23.6	
Sample ID: MB-RA226-3845	3	Method Blank				Run: BERTHOLD 770-2_090722A				08/04/09 13:41
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.08pCi/L								
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3845		Laboratory Control Sample				Run: BERTHOLD 770-2_090722A				08/04/09 13:41
Radium 226		7.2	pCi/L		93	70	130			
Method: E903.0										Batch: RA226-3906
Sample ID: C09080371-001EMS		Sample Matrix Spike				Run: BERTHOLD 770-1_090814B				08/28/09 09:20
Radium 226		18	pCi/L		108	70	130			
Sample ID: C09080371-001EMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_090814B				08/28/09 09:20
Radium 226		20	pCi/L		121	70	130	11	23.1	
Sample ID: MB-RA226-3906	3	Method Blank				Run: BERTHOLD 770-1_090814B				08/28/09 11:04
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.09pCi/L								
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-3906		Laboratory Control Sample				Run: BERTHOLD 770-1_090814B				08/28/09 11:04
Radium 226		9.5	pCi/L		123	70	130			
Method: E907.0										Batch: RA-TH-ISO-0859
Sample ID: LCS-RA-TH-ISO-0859		Laboratory Control Sample				Run: EGG-ORTEC_090728A				08/03/09 12:10
Thorium 230		5.04pCi/L			103	70	130			
Sample ID: C09070725-006FMS		Sample Matrix Spike				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		19.0pCi/L			116	70	130			
Sample ID: C09070725-006FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		16.9pCi/L			105	70	130	12	43.5	
Sample ID: MB-RA-TH-ISO-0859	3	Method Blank				Run: EGG-ORTEC_090728A				08/04/09 08:57
Thorium 230		-0.006	pCi/L							U
Thorium 230 precision (±)		0.10pCi/L								
Thorium 230 MDC		0.2	pCi/L							

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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: E907.0										Batch: RA-TH-ISO-0868
Sample ID: LCS-RA-TH-ISO-0868		Laboratory Control Sample				Run: EGG-ORTEC_090804B				08/09/09 13:24
Thorium 230		4.8	pCi/L		97	70	130			
Sample ID: C09071262-003AMS		Sample Matrix Spike				Run: EGG-ORTEC_090804B				08/10/09 09:12
Thorium 230		12	pCi/L		102	70	130			
Sample ID: C09071262-003AMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_090804B				08/10/09 09:12
Thorium 230		15	pCi/L		124	70	130	19	45.7	
Sample ID: MB-RA-TH-ISO-0868	3	Method Blank				Run: EGG-ORTEC_090804B				08/10/09 09:12
Thorium 230		-0.01	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E909.0M										Batch: R121970
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: PACKARD 3100TR_090727B				07/27/09 10:00
Lead 210		61	pCi/L		107	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_090727B				07/27/09 10:00
Lead 210		58	pCi/L		103	70	130	3.9	30	
Sample ID: MB-R121970	3	Method Blank				Run: PACKARD 3100TR_090727B				07/27/09 10:00
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		4	pCi/L							
Sample ID: LCS-R121970		Laboratory Control Sample				Run: PACKARD 3100TR_090727B				07/27/09 10:00
Lead 210		120	pCi/L		105	70	130			
Method: E909.0M										Batch: R123423
Sample ID: C09060603-004AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_090902A				09/02/09 10:18
Lead 210		110	pCi/L		94	70	130			
Sample ID: C09060603-004AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_090902A				09/02/09 10:18
Lead 210		92	pCi/L		79	70	130	17	30	
Sample ID: MB-R123423	3	Method Blank				Run: BECKMAN 6100TA_090902A				09/02/09 10:18
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		2	pCi/L							
Lead 210 MDC		3	pCi/L							
Sample ID: LCS-R123423		Laboratory Control Sample				Run: BECKMAN 6100TA_090902A				09/02/09 10:18
Lead 210		50	pCi/L		92	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2779
Sample ID: LCS-228-RA226-3840		Laboratory Control Sample				Run: TENNELEC-3_090721F				07/28/09 09:36
Radium 228		8.49	pCi/L		106	70	130			
Sample ID: MB-RA226-3840	3	Method Blank				Run: TENNELEC-3_090721F				07/28/09 09:36
Radium 228		-0.5	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070587-002CMS		Sample Matrix Spike				Run: TENNELEC-3_090721F				07/28/09 09:36
Radium 228		15.3	pCi/L		95	70	130			
Sample ID: C09070587-002CMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090721F				07/28/09 09:36
Radium 228		15.7	pCi/L		97	70	130	3	35.7	
Method: RA-05										Batch: RA228-2780
Sample ID: LCS-228-RA226-3841		Laboratory Control Sample				Run: TENNELEC-3_090721B				07/24/09 13:07
Radium 228		7.93	pCi/L		89	70	130			
Sample ID: MB-RA226-3841	3	Method Blank				Run: TENNELEC-3_090721B				07/24/09 13:07
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070701-002GMS		Sample Matrix Spike				Run: TENNELEC-3_090721B				07/24/09 13:07
Radium 228		18	pCi/L		81	70	130			
Sample ID: C09070701-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090721B				07/24/09 13:07
Radium 228		18	pCi/L		80	70	130	0.4	31.7	
Method: RA-05										Batch: RA228-2784
Sample ID: LCS-228-RA226-3845		Laboratory Control Sample				Run: TENNELEC-3_090722C				07/28/09 11:40
Radium 228		8.2	pCi/L		100	70	130			
Sample ID: MB-RA226-3845	3	Method Blank				Run: TENNELEC-3_090722C				07/28/09 11:40
Radium 228		-0.3	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09070704-003DMS		Sample Matrix Spike				Run: TENNELEC-3_090722C				07/28/09 11:40
Radium 228		26	pCi/L		96	70	130			
Sample ID: C09070704-003DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090722C				07/28/09 11:40
Radium 228		26	pCi/L		92	70	130	2.2	26.4	

Qualifiers:

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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 09/09/09
Work Order: C09070701

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2821
Sample ID: LCS-228-RA226-3906		Laboratory Control Sample				Run: TENNELEC-3_090814A				08/20/09 10:24
Radium 228		7.3	pCi/L		89	70	130			
Sample ID: MB-RA226-3906	3	Method Blank				Run: TENNELEC-3_090814A				08/20/09 10:25
Radium 228		-0.2	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09080389-001GMS		Sample Matrix Spike				Run: TENNELEC-3_090814A				08/20/09 10:25
Radium 228		14	pCi/L		85	70	130			
Sample ID: C09080389-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_090814A				08/20/09 10:25
Radium 228		14	pCi/L		84	70	130	1.7	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

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ANALYTICAL SUMMARY REPORT

August 07, 2009

United Nuclear Corporation
21 Miles NE Of Gallup 1051 State Rd 566 (87301)
Gallup, NM 87305

Workorder No.: C09070711

Project Name: Zone 3

Energy Laboratories, Inc. received the following 10 samples for United Nuclear Corporation on 7/17/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09070711-001	NBL-2	07/14/09 12:25	07/17/09	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C09070711-002	NW-4	07/14/09 13:55	07/17/09	Aqueous	Same As Above
C09070711-003	NW-1	07/14/09 14:05	07/17/09	Aqueous	Same As Above
C09070711-004	NW-2	07/14/09 14:15	07/17/09	Aqueous	Same As Above
C09070711-005	NW-3	07/14/09 14:25	07/17/09	Aqueous	Same As Above
C09070711-006	NW-5	07/14/09 14:30	07/17/09	Aqueous	Same As Above
C09070711-007	PB-2	07/14/09 14:40	07/17/09	Aqueous	Same As Above
C09070711-008	RW-A	07/14/09 14:50	07/17/09	Aqueous	Same As Above
C09070711-009	PB-3	07/14/09 15:10	07/17/09	Aqueous	Same As Above
C09070711-010	PB-4	07/14/09 15:25	07/17/09	Aqueous	Acidity, Total as CaCO3 Alkalinity E300.0 Anions pH Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C09070711

Date: 07-Aug-09

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505
Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070711

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R121197
Sample ID: MBLK	2	Method Blank				Run: MANTECH_090721A				07/21/09 11:11
Alkalinity, Total as CaCO3		3	mg/L	0.2						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:26
Alkalinity, Total as CaCO3		200	mg/L	5.0	98	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_090721A				07/21/09 11:33
Alkalinity, Total as CaCO3		51.3	mg/L	5.0	97	90	110			
Sample ID: C09070706-003AMS		Sample Matrix Spike				Run: MANTECH_090721A				07/21/09 13:40
Alkalinity, Total as CaCO3		138	mg/L	5.0	100	80	120			
Sample ID: C09070706-003AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090721A				07/21/09 13:47
Alkalinity, Total as CaCO3		140	mg/L	5.0	101	80	120	1.2	20	
Sample ID: C09070718-001AMS		Sample Matrix Spike				Run: MANTECH_090721A				07/21/09 16:02
Alkalinity, Total as CaCO3		138	mg/L	5.0	108	80	120			
Sample ID: C09070718-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_090721A				07/21/09 16:09
Alkalinity, Total as CaCO3		133	mg/L	5.0	104	80	120	3.3	20	
Method: A2540 C										Batch: R121303
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090722B				07/22/09 15:29
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090722B				07/22/09 15:30
Solids, Total Dissolved TDS @ 180 C		998	mg/L	10	100	90	110			
Sample ID: C09070711-007AMS		Sample Matrix Spike				Run: BAL-1_090722B				07/22/09 15:33
Solids, Total Dissolved TDS @ 180 C		6660	mg/L	10	104	90	110			
Sample ID: C09070711-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090722B				07/22/09 15:33
Solids, Total Dissolved TDS @ 180 C		6650	mg/L	10	103	90	110	0.3	10	
Method: A2540 C										Batch: R121868
Sample ID: MBLK1_		Method Blank				Run: BAL-1_090803A				08/03/09 11:14
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_		Laboratory Control Sample				Run: BAL-1_090803A				08/03/09 11:15
Solids, Total Dissolved TDS @ 180 C		1030	mg/L	10	103	90	110			
Sample ID: C09070711-010AMS		Sample Matrix Spike				Run: BAL-1_090803A				08/03/09 11:25
Solids, Total Dissolved TDS @ 180 C		6610	mg/L	10	98	90	110			
Sample ID: C09070711-010AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_090803A				08/03/09 11:25
Solids, Total Dissolved TDS @ 180 C		6600	mg/L	10	98	90	110	0.1	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 08/05/09
Work Order: C09070711

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_090720A	
Sample ID: ICV1_090720_1		Initial Calibration Verification Standard							07/20/09 13:34	
pH		6.89	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090720_1_PH-W_555A-2	
Sample ID: C09070711-003ADUP		Sample Duplicate				Run: ORION555A-2_090720A			07/20/09 15:01	
pH		6.76	s.u.	0.010				0.4	10	
Method: A4500-H B									Analytical Run: ORION555A-2_090721B	
Sample ID: ICV1_090721_2		Initial Calibration Verification Standard							07/21/09 14:56	
pH		6.87	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 090721_2_PH-W_555A-2	
Sample ID: C09070697-006ADUP		Sample Duplicate				Run: ORION555A-2_090721B			07/21/09 15:25	
pH		7.84	s.u.	0.010				0.3	10	
Method: E300.0									Batch: R121558	
Sample ID: LCS		Laboratory Control Sample				Run: IC1-C_090727A			07/27/09 15:51	
Chloride		9.48	mg/L	1.0	95	90	110			
Sample ID: MBLK		Method Blank				Run: IC1-C_090727A			07/27/09 16:07	
Chloride		ND	mg/L	0.04						
Sample ID: C09070422-001AMS		Sample Matrix Spike				Run: IC1-C_090727A			07/27/09 16:53	
Chloride		22.2	mg/L	1.0	104	90	110			
Sample ID: C09070422-001AMSD		Sample Matrix Spike Duplicate				Run: IC1-C_090727A			07/27/09 17:08	
Chloride		22.0	mg/L	1.0	103	90	110	0.6	20	
Sample ID: C09070720-001AMS		Sample Matrix Spike				Run: IC1-C_090727A			07/27/09 21:46	
Chloride		38.8	mg/L	1.0	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

APPENDIX - D (2 OF 2)

FOURTH QUARTER

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

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ANALYTICAL SUMMARY REPORT

November 20, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09100421 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corp on 10/9/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100421-001	509-D	10/05/09 08:45	10/09/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09100421-002	EPA-23	10/05/09 09:26	10/09/09	Aqueous	Same As Above
C09100421-003	801	10/05/09 10:06	10/09/09	Aqueous	Same As Above
C09100421-004	802	10/05/09 10:52	10/09/09	Aqueous	Same As Above
C09100421-005	803	10/05/09 11:32	10/09/09	Aqueous	Same As Above
C09100421-006	624	10/05/09 12:40	10/09/09	Aqueous	Same As Above
C09100421-007	SBL-1	10/05/09 13:53	10/09/09	Aqueous	Same As Above
C09100421-008	EPA-28	10/05/09 14:35	10/09/09	Aqueous	Same As Above
C09100421-009	EPA-28 Duplicate	10/05/09 15:10	10/09/09	Aqueous	Same As Above
C09100421-010	808	10/06/09 11:26	10/09/09	Aqueous	Same As Above
C09100421-011	GW-2	10/06/09 12:05	10/09/09	Aqueous	Same As Above
C09100421-012	GW-1	10/06/09 12:48	10/09/09	Aqueous	Same As Above
C09100421-013	632	10/06/09 13:40	10/09/09	Aqueous	Same As Above
C09100421-014	GW-3	10/06/09 14:28	10/09/09	Aqueous	Same As Above
C09100421-015	EPA-25	10/06/09 15:22	10/09/09	Aqueous	Same As Above
C09100421-016	627	10/06/09 16:13	10/09/09	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Alluvium
Sample Delivery Group: C09100421

Date: 20-Nov-09

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 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 Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R124988
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091012A				10/12/09 11:49
Alkalinity, Total as CaCO3		ND	mg/L	0.2						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:04
Alkalinity, Total as CaCO3		199	mg/L	5.0	100	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:11
Alkalinity, Total as CaCO3		52.4	mg/L	5.0	105	90	110			
Sample ID: C09100421-010AMS		Sample Matrix Spike				Run: MANTECH_091012A				10/12/09 16:45
Alkalinity, Total as CaCO3		1660	mg/L	5.0	92	80	120			
Sample ID: C09100421-010AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091012A				10/12/09 16:57
Alkalinity, Total as CaCO3		1670	mg/L	5.0	106	80	120	1	20	
Method: A2540 C										Batch: 091012_1_SLDS-TDS-W
Sample ID: MBLK1_091012		Method Blank				Run: BAL-1_091012B				10/12/09 09:12
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091012		Laboratory Control Sample				Run: BAL-1_091012B				10/12/09 09:12
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C09100279-001AMS		Sample Matrix Spike				Run: BAL-1_091012B				10/12/09 09:15
Solids, Total Dissolved TDS @ 180 C		2150	mg/L	10	102	90	110			
Sample ID: C09100279-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091012B				10/12/09 09:15
Solids, Total Dissolved TDS @ 180 C		2120	mg/L	10	101	90	110	1	10	
Method: A2540 C										Batch: 091012_2_SLDS-TDS-W
Sample ID: MBLK1_091012		Method Blank				Run: BAL-1_091012C				10/12/09 13:28
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091012		Laboratory Control Sample				Run: BAL-1_091012C				10/12/09 13:32
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C09100423-001BMS		Sample Matrix Spike				Run: BAL-1_091012C				10/12/09 13:35
Solids, Total Dissolved TDS @ 180 C		8480	mg/L	10	101	90	110			
Sample ID: C09100423-001BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091012C				10/12/09 13:35
Solids, Total Dissolved TDS @ 180 C		8440	mg/L	10	99	90	110	0.5	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 091013_2_SLDS-TDS-W	
Sample ID: MBLK1_091013		Method Blank				Run: BAL-1_091013B			10/13/09 08:48	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091013		Laboratory Control Sample				Run: BAL-1_091013B			10/13/09 08:48	
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C09100437-001AMS		Sample Matrix Spike				Run: BAL-1_091013B			10/13/09 08:51	
Solids, Total Dissolved TDS @ 180 C		2220	mg/L	10	102	90	110			
Sample ID: C09100437-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091013B			10/13/09 08:51	
Solids, Total Dissolved TDS @ 180 C		2220	mg/L	10	102	90	110	0.2	10	
Method: A3114 B									Batch: SE3114-091013B	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_091013B			10/13/09 12:41	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 1006		Laboratory Control Sample				Run: CVAA-C202_091013B			10/13/09 12:43	
Selenium-IV		0.0547	mg/L	0.0010	109	90	110			
Sample ID: C09100421-001DMS		Sample Matrix Spike				Run: CVAA-C202_091013B			10/13/09 12:52	
Selenium-IV		0.0541	mg/L	0.0010	108	85	115			
Sample ID: C09100421-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091013B			10/13/09 12:55	
Selenium-IV		0.0550	mg/L	0.0010	110	85	115	1.6	10	
Sample ID: C09100421-011DMS		Sample Matrix Spike				Run: CVAA-C202_091013B			10/13/09 13:25	
Selenium-IV		0.0554	mg/L	0.0010	111	85	115			
Sample ID: C09100421-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091013B			10/13/09 13:27	
Selenium-IV		0.0556	mg/L	0.0010	111	85	115	0.4	10	
Method: A4500-Cl B									Batch: 091012A-CL-TTR-W	
Sample ID: MBLK9-091012A		Method Blank				Run: TITRATION_091012A			10/12/09 09:02	
Chloride		ND	mg/L	0.4						
Sample ID: C09100421-003AMS		Sample Matrix Spike				Run: TITRATION_091012A			10/12/09 10:07	
Chloride		583	mg/L	1.0	104	90	110			
Sample ID: C09100421-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091012A			10/12/09 10:09	
Chloride		561	mg/L	1.0	98	90	110	3.7	10	
Sample ID: C09100421-013AMS		Sample Matrix Spike				Run: TITRATION_091012A			10/12/09 11:10	
Chloride		597	mg/L	1.0	96	90	110			
Sample ID: C09100421-013AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091012A			10/12/09 11:13	
Chloride		579	mg/L	1.0	91	90	110	3	10	
Sample ID: LCS35-091012A		Laboratory Control Sample				Run: TITRATION_091012A			10/12/09 11:19	
Chloride		3570	mg/L	1.0	101	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: ORION555A-2_091012A	
Sample ID: ICV1_091012_1		Initial Calibration Verification Standard							10/12/09 13:06	
pH		6.99	s.u.	0.010	102	98	102			
Method: A4500-H B									Batch: 091012_1__555A-2	
Sample ID: C09100421-008ADUP		Sample Duplicate				Run: ORION555A-2_091012A			10/12/09 14:21	
pH		7.34	s.u.	0.010				0.8	10	
Method: A4500-H B									Analytical Run: ORION555A-2_091013A	
Sample ID: ICV1_091013_1		Initial Calibration Verification Standard							10/13/09 15:02	
pH		6.92	s.u.	0.010	101	98	102			
Method: A4500-H B									Batch: 091013_1__555A-2	
Sample ID: C09100425-004ADUP		Sample Duplicate				Run: ORION555A-2_091013A			10/13/09 16:23	
pH		7.55	s.u.	0.010				1.8	10	
Method: A4500-NH3 G									Batch: R125180	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091015A			10/15/09 09:18	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091015A			10/15/09 09:20	
Nitrogen, Ammonia as N		19.4	mg/L	0.20	97	80	120			
Sample ID: C09100421-004HMS		Sample Matrix Spike				Run: TECHNICON_091015A			10/15/09 12:09	
Nitrogen, Ammonia as N		2.02	mg/L	0.050	98	80	120			
Sample ID: C09100421-004HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091015A			10/15/09 12:11	
Nitrogen, Ammonia as N		1.93	mg/L	0.050	93	80	120	4.6	20	
Sample ID: C09100421-014HMS		Sample Matrix Spike				Run: TECHNICON_091015A			10/15/09 12:41	
Nitrogen, Ammonia as N		2.30	mg/L	0.050	114	80	120			
Sample ID: C09100421-014HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091015A			10/15/09 12:43	
Nitrogen, Ammonia as N		2.35	mg/L	0.050	116	80	120	2.2	20	
Method: A4500-SO4 E									Batch: 091012_1_SO4-TURB-W	
Sample ID: LCS-1_091012		Laboratory Control Sample				Run: TURB-2_091012A			10/12/09 14:49	
Sulfate		4990	mg/L	59	104	90	110			
Sample ID: MBLK-1_091012		Method Blank				Run: TURB-2_091012A			10/12/09 14:51	
Sulfate		ND	mg/L	0.6						
Sample ID: C09100421-008AMS		Sample Matrix Spike				Run: TURB-2_091012A			10/12/09 16:25	
Sulfate		4840	mg/L	59	104	90	110			
Sample ID: C09100421-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091012A			10/12/09 16:10	
Sulfate		4830	mg/L	59	103	90	110	0.2	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 091014_1_SO4-TURB-W	
Sample ID: LCS-1_091014		Laboratory Control Sample				Run: TURB-2_091014A			10/14/09 15:04	
Sulfate		4610	mg/L	59	96	90	110			
Sample ID: MBLK-1_091014		Method Blank				Run: TURB-2_091014A			10/14/09 15:07	
Sulfate		ND	mg/L	0.6						
Sample ID: C09100428-008AMS		Sample Matrix Spike				Run: TURB-2_091014A			10/14/09 16:37	
Sulfate		21.7	mg/L	1.0	107	90	110			
Sample ID: C09100428-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091014A			10/14/09 16:37	
Sulfate		21.9	mg/L	1.0	109	90	110	1.3	10	
Method: E1632AM									Batch: H_R57494	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H57494			10/19/09 12:22	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS091019-LCS		Laboratory Control Sample				Run: SUB-H57494			10/19/09 12:30	
Arsenic-III		45.6	ug/L	5.0	91	90	110			
Sample ID: C09100421-002E		Sample Duplicate				Run: SUB-H57494			10/19/09 13:31	
Arsenic-III		ND	ug/L	5.0					20	
Sample ID: C09100421-010E		Sample Matrix Spike				Run: SUB-H57494			10/19/09 15:26	
Arsenic-III		51.6	ug/L	5.0	103	80	120			
Sample ID: C09100421-010E		Sample Matrix Spike Duplicate				Run: SUB-H57494			10/19/09 15:34	
Arsenic-III		46.2	ug/L	5.0	92	80	120	11	20	
Sample ID: C09100421-012E		Sample Duplicate				Run: SUB-H57494			10/19/09 15:59	
Arsenic-III		ND	ug/L	5.0					20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125541
Sample ID: MB-091023A	4	Method Blank				Run: ICP2-C_091023A				10/23/09 11:49
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091023A	4	Laboratory Fortified Blank				Run: ICP2-C_091023A				10/23/09 11:53
Calcium		48.0	mg/L	0.50	96	85	115			
Magnesium		48.9	mg/L	0.50	98	85	115			
Potassium		45.6	mg/L	0.50	91	85	115			
Sodium		47.2	mg/L	0.50	94	85	115			
Sample ID: C09100421-001CMS2	4	Sample Matrix Spike				Run: ICP2-C_091023A				10/23/09 12:46
Calcium		1330	mg/L	2.5	88	70	130			
Magnesium		908	mg/L	1.0	96	70	130			
Potassium		464	mg/L	1.0	88	70	130			
Sodium		883	mg/L	2.3	99	70	130			
Sample ID: C09100421-001CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091023A				10/23/09 12:51
Calcium		1330	mg/L	2.5	89	70	130	0.2	20	
Magnesium		899	mg/L	1.0	94	70	130	1	20	
Potassium		469	mg/L	1.0	89	70	130	1	20	
Sodium		868	mg/L	2.3	96	70	130	1.7	20	
Sample ID: C09100421-011CMS2	4	Sample Matrix Spike				Run: ICP2-C_091023A				10/23/09 13:54
Calcium		1040	mg/L	2.5	87	70	130			
Magnesium		1520	mg/L	1.0	90	70	130			
Potassium		463	mg/L	1.0	88	70	130			
Sodium		863	mg/L	2.3	96	70	130			
Sample ID: C09100421-011CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091023A				10/23/09 13:58
Calcium		1090	mg/L	2.5	95	70	130	4.1	20	
Magnesium		1520	mg/L	1.0	91	70	130	0.2	20	
Potassium		470	mg/L	1.0	90	70	130	1.5	20	
Sodium		873	mg/L	2.3	98	70	130	1.2	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125654
Sample ID: MB-091027A	4	Method Blank				Run: ICP2-C_091027A				10/27/09 11:23
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-091027A	4	Laboratory Fortified Blank				Run: ICP2-C_091027A				10/27/09 11:27
Calcium		48.1	mg/L	0.50	96	85	115			
Magnesium		48.0	mg/L	0.50	96	85	115			
Potassium		44.6	mg/L	0.50	89	85	115			
Sodium		44.6	mg/L	0.50	89	85	115			
Sample ID: C09100421-010CMS2	4	Sample Matrix Spike				Run: ICP2-C_091027A				10/27/09 12:23
Calcium		1220	mg/L	2.5	95	70	130			
Magnesium		1110	mg/L	1.0	93	70	130			
Potassium		465	mg/L	1.0	90	70	130			
Sodium		804	mg/L	2.3	94	70	130			
Sample ID: C09100421-010CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091027A				10/27/09 12:28
Calcium		1240	mg/L	2.5	98	70	130	1.3	20	
Magnesium		1140	mg/L	1.0	98	70	130	2.2	20	
Potassium		471	mg/L	1.0	91	70	130	1.3	20	
Sodium		794	mg/L	2.3	92	70	130	1.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24012
Sample ID: MB-24012	2	Method Blank				Run: ICPMS2-C_091014A				10/14/09 18:43
Beryllium		ND	mg/L	6E-05						
Uranium		ND	mg/L	6E-05						
Sample ID: LCS3-24012	2	Laboratory Control Sample				Run: ICPMS2-C_091014A				10/14/09 18:50
Beryllium		0.288	mg/L	0.010	115	85	115			
Uranium		0.572	mg/L	0.00030	114	85	115			
Sample ID: C09100421-016DMS3	2	Sample Matrix Spike				Run: ICPMS2-C_091014A				10/14/09 21:38
Beryllium		0.231	mg/L	0.010	91	70	130			
Uranium		0.586	mg/L	0.00030	112	70	130			
Sample ID: C09100421-016DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091014A				10/14/09 21:45
Beryllium		0.252	mg/L	0.010	100	70	130	8.7	20	
Uranium		0.637	mg/L	0.00030	122	70	130	8.4	20	
Sample ID: MB-24012	9	Method Blank				Run: ICPMS4-C_091013A				10/14/09 08:23
Beryllium		ND	mg/L	9E-05						
Cadmium		6E-05	mg/L	5E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	9E-05						
Manganese		0.0003	mg/L	4E-05						
Molybdenum		0.0002	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		ND	mg/L	7E-05						
Vanadium		0.01	mg/L	4E-05						
Sample ID: LCS3-24012	9	Laboratory Control Sample				Run: ICPMS4-C_091013A				10/14/09 08:30
Beryllium		0.256	mg/L	0.010	102	85	115			
Cadmium		0.285	mg/L	0.010	114	85	115			
Cobalt		0.502	mg/L	0.010	100	85	115			
Lead		0.538	mg/L	0.050	108	85	115			
Manganese		2.53	mg/L	0.010	101	85	115			
Molybdenum		0.545	mg/L	0.10	109	85	115			
Nickel		0.517	mg/L	0.050	103	85	115			
Uranium		0.537	mg/L	0.00030	107	85	115			
Vanadium		0.535	mg/L	0.10	104	85	115			
Sample ID: C09100421-016DMS3	9	Sample Matrix Spike				Run: ICPMS4-C_091013A				10/14/09 09:44
Beryllium		0.209	mg/L	0.010	84	70	130			
Cadmium		0.257	mg/L	0.010	103	70	130			
Cobalt		0.502	mg/L	0.010	100	70	130			
Lead		0.543	mg/L	0.050	109	70	130			
Manganese		2.59	mg/L	0.010	103	70	130			
Molybdenum		0.566	mg/L	0.10	113	70	130			
Nickel		0.497	mg/L	0.050	99	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24012
Sample ID: C09100421-016DMS3	9	Sample Matrix Spike				Run: ICPMS4-C_091013A				10/14/09 09:44
Uranium		0.582	mg/L	0.00030	112	70	130			
Vanadium		0.556	mg/L	0.10	110	70	130			
Sample ID: C09100421-016DMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_091013A				10/14/09 09:51
Beryllium		0.211	mg/L	0.010	84	70	130	0.8	20	
Cadmium		0.255	mg/L	0.010	102	70	130	0.6	20	
Cobalt		0.492	mg/L	0.010	98	70	130	2.1	20	
Lead		0.540	mg/L	0.050	108	70	130	0.5	20	
Manganese		2.51	mg/L	0.010	100	70	130	3	20	
Molybdenum		0.562	mg/L	0.10	112	70	130	0.7	20	
Nickel		0.493	mg/L	0.050	98	70	130	0.7	20	
Uranium		0.574	mg/L	0.00030	111	70	130	1.3	20	
Vanadium		0.556	mg/L	0.10	110	70	130	0.1	20	
Sample ID: MB-24012	2	Method Blank				Run: ICPMS4-C_091020A				10/20/09 13:38
Aluminum		0.002	mg/L	0.001						
Beryllium		ND	mg/L	9E-05						
Sample ID: LCS3-24012	2	Laboratory Control Sample				Run: ICPMS4-C_091020A				10/20/09 13:44
Aluminum		2.39	mg/L	0.10	96	85	115			
Beryllium		0.229	mg/L	0.010	92	85	115			
Sample ID: C09100421-016DMS3	2	Sample Matrix Spike				Run: ICPMS4-C_091020A				10/20/09 15:58
Aluminum		2.54	mg/L	0.10	102	70	130			
Beryllium		0.226	mg/L	0.010	90	70	130			
Sample ID: C09100421-016DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS4-C_091020A				10/20/09 16:03
Aluminum		2.56	mg/L	0.10	102	70	130	0.7	20	
Beryllium		0.229	mg/L	0.010	92	70	130	1.2	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R125241
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091016B				10/16/09 14:23
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091016B				10/16/09 14:25
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	105	90	110			
Sample ID: C09100414-007FMS		Sample Matrix Spike				Run: TECHNICON_091016B				10/16/09 15:18
Nitrogen, Nitrate+Nitrite as N		2.04	mg/L	0.10	102	90	110			
Sample ID: C09100414-007FMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016B				10/16/09 15:20
Nitrogen, Nitrate+Nitrite as N		2.15	mg/L	0.10	107	90	110	5.3	10	
Sample ID: C09100474-001FMS		Sample Matrix Spike				Run: TECHNICON_091016B				10/16/09 15:58
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110			
Sample ID: C09100474-001FMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016B				10/16/09 16:00
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	100	90	110	2	10	
Sample ID: C09100574-001HMS		Sample Matrix Spike				Run: TECHNICON_091016B				10/16/09 16:35
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	103	90	110			
Sample ID: C09100574-001HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016B				10/16/09 16:38
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	1	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R124991
Sample ID: 12-Oct-09_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_091012B				10/12/09 12:54
Bromodichloromethane		10.8	ug/L	1.0	108	70	130			
Bromoform		10.4	ug/L	1.0	104	70	130			
Chlorodibromomethane		10.8	ug/L	1.0	108	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	100	80	120			
Surr: Dibromofluoromethane				1.0	107	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: 12-Oct-09_MBLK_6	9	Method Blank				Run: 5975VOC1_091012B				10/12/09 14:41
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	108	80	120			
Surr: Dibromofluoromethane				1.0	103	80	120			
Surr: p-Bromofluorobenzene				1.0	94	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100340-006DMS	9	Sample Matrix Spike				Run: 5975VOC1_091012B				10/12/09 20:04
Bromodichloromethane		206	ug/L	20	103	70	130			
Bromoform		197	ug/L	20	98	70	130			
Chlorodibromomethane		208	ug/L	20	104	70	130			
Chloroform		218	ug/L	20	109	70	130			
Trihalomethanes, Total		829	ug/L	20	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				20	96	80	120			
Surr: Dibromofluoromethane				20	104	80	120			
Surr: p-Bromofluorobenzene				20	109	80	120			
Surr: Toluene-d8				20	96	80	120			
Sample ID: C09100340-006DMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091012B				10/12/09 20:40
Bromodichloromethane		210	ug/L	20	105	70	130	1.5	20	
Bromoform		202	ug/L	20	101	70	130	2.8	20	
Chlorodibromomethane		213	ug/L	20	106	70	130	2.3	20	
Chloroform		221	ug/L	20	110	70	130	1.5	20	
Trihalomethanes, Total		846	ug/L	20	106	70	130	2	20	
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	108	80	120			
Surr: p-Bromofluorobenzene				20	111	80	120			
Surr: Toluene-d8				20	95	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125167
Sample ID: 14-Oct-09_LCS_2	9	Laboratory Control Sample				Run: 5975VOC1_091014A				10/14/09 11:24
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		9.56	ug/L	1.0	96	70	130			
Chlorodibromomethane		9.96	ug/L	1.0	100	70	130			
Chloroform		10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total		39.4	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: 14-Oct-09_MBLK_6	9	Method Blank				Run: 5975VOC1_091014A				10/14/09 13:46
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	102	80	120			
Surr: p-Bromofluorobenzene				1.0	96	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100425-003IMS	9	Sample Matrix Spike				Run: 5975VOC1_091014A				10/14/09 18:57
Bromodichloromethane		205	ug/L	20	102	70	130			
Bromoform		198	ug/L	20	99	70	130			
Chlorodibromomethane		205	ug/L	20	102	70	130			
Chloroform		270	ug/L	20	115	70	130			
Trihalomethanes, Total		878	ug/L	20	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	109	80	120			
Surr: p-Bromofluorobenzene				20	110	80	120			
Surr: Toluene-d8				20	97	80	120			
Sample ID: C09100425-003IMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091014A				10/14/09 19:32
Bromodichloromethane		206	ug/L	20	103	70	130	0.8	20	
Bromoform		204	ug/L	20	102	70	130	2.8	20	
Chlorodibromomethane		208	ug/L	20	104	70	130	1.6	20	
Chloroform		272	ug/L	20	116	70	130	0.9	20	
Trihalomethanes, Total		890	ug/L	20	106	70	130	1.4	20	
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	106	80	120			
Surr: p-Bromofluorobenzene				20	108	80	120			
Surr: Toluene-d8				20	96	80	120			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0278
Sample ID: MB-GA-0278	3	Method Blank				Run: BERTHOLD 770-2_091106A				11/09/09 12:59
Gross Alpha minus Rn & U		0.07	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-0278		Laboratory Control Sample				Run: BERTHOLD 770-2_091106A				11/09/09 12:59
Gross Alpha minus Rn & U		27.7	pCi/L		105	70	130			
Sample ID: C09100421-016FMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091106A				11/09/09 17:04
Gross Alpha minus Rn & U		23.5	pCi/L		87	70	130			
Sample ID: C09100421-016FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091106A				11/09/09 17:04
Gross Alpha minus Rn & U		24.8	pCi/L		92	70	130	5.6	25.8	
Method: E903.0										Batch: RA226-4109
Sample ID: C09100421-006FMS		Sample Matrix Spike				Run: TENNELEC-3_091021B				11/05/09 14:30
Radium 226		21	pCi/L		120	70	130			
Sample ID: C09100421-006FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091021B				11/05/09 14:30
Radium 226		22	pCi/L		124	70	130	3.9	23.3	
Sample ID: MB-RA226-4109	3	Method Blank				Run: TENNELEC-3_091021B				11/05/09 14:30
Radium 226		0.2	pCi/L							
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4109		Laboratory Control Sample				Run: TENNELEC-3_091021B				11/05/09 14:30
Radium 226		7.8	pCi/L		95	70	130			
Method: E903.0										Batch: RA226-4120
Sample ID: C09100432-001GMS		Sample Matrix Spike				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		14.6	pCi/L		90	70	130			
Sample ID: C09100432-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		14.6	pCi/L		91	70	130	0	23.2	
Sample ID: MB-RA226-4120	3	Method Blank				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4120		Laboratory Control Sample				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		8.1	pCi/L		101	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-0968
Sample ID: LCS-RA-TH-ISO-0968		Laboratory Control Sample				Run: EGG-ORTEC_091023A				10/28/09 16:58
Thorium 230		5.48	pCi/L		98	70	130			
Sample ID: C09100421-003FMS		Sample Matrix Spike				Run: EGG-ORTEC_091023A				10/28/09 16:58
Thorium 230		15.8	pCi/L		92	70	130			
Sample ID: C09100421-003FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091023A				10/30/09 12:56
Thorium 230		15.8	pCi/L		94	70	130	0.2	36.8	
Sample ID: MB-RA-TH-ISO-0968	3	Method Blank				Run: EGG-ORTEC_091023A				10/30/09 17:10
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.08	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E909.0M										Batch: R126513
Sample ID: C09061257-003DMS		Sample Matrix Spike				Run: BECKMAN 6100TA_091110A				11/10/09 13:04
Lead 210		150	pCi/L		133	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: C09061257-003DMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_091110A				11/10/09 13:04
Lead 210		120	pCi/L		108	70	130	21	30	
Sample ID: MB-R126513	3	Method Blank				Run: BECKMAN 6100TA_091110A				11/10/09 13:04
Lead 210		-6	pCi/L							U
Lead 210 precision (±)		7	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-R126513		Laboratory Control Sample				Run: BECKMAN 6100TA_091110A				11/10/09 13:04
Lead 210		91	pCi/L		85	70	130			
Method: RA-05										Batch: RA228-2928
Sample ID: LCS-228-RA226-4109		Laboratory Control Sample				Run: TENNELEC-3_091021A				10/29/09 09:38
Radium 228		6.9	pCi/L		89	70	130			
Sample ID: MB-RA226-4109	3	Method Blank				Run: TENNELEC-3_091021A				10/29/09 09:38
Radium 228		-0.5	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100421-010FMS		Sample Matrix Spike				Run: TENNELEC-3_091021A				10/29/09 09:38
Radium 228		19	pCi/L		104	70	130			
Sample ID: C09100421-010FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091021A				10/29/09 09:38
Radium 228		18	pCi/L		101	70	130	2.8	35.8	

Qualifiers:

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ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 11/20/09
Work Order: C09100421

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2933
Sample ID: LCS-228-RA226-4120		Laboratory Control Sample				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		8.5	pCi/L		104	70	130			
Sample ID: MB-RA226-4120	3	Method Blank				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		-0.03	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100432-001GMS		Sample Matrix Spike				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		16	pCi/L		99	70	130			
Sample ID: C09100432-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		15	pCi/L		89	70	130	9.8	37.6	

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ANALYTICAL SUMMARY REPORT

November 20, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09100425 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corp on 10/9/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100425-001	604	10/06/09 08:45	10/09/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Sample Filtering 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 Sulfate E624 Purgeable Organics
C09100425-002	614	10/07/09 08:40	10/09/09	Aqueous	Same As Above
C09100425-003	515-A	10/07/09 09:35	10/09/09	Aqueous	Same As Above
C09100425-004	Field Blank	10/07/09 11:45	10/09/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C09100425

Date: 20-Nov-09

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 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-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R124988
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091012A				10/12/09 11:49
Alkalinity, Total as CaCO3		ND	mg/L	0.2						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:04
Alkalinity, Total as CaCO3		199	mg/L	5.0	100	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:11
Alkalinity, Total as CaCO3		52.4	mg/L	5.0	105	90	110			
Sample ID: C09100425-003AMS		Sample Matrix Spike				Run: MANTECH_091012A				10/12/09 22:02
Alkalinity, Total as CaCO3		292	mg/L	5.0	102	80	120			
Sample ID: C09100425-003AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091012A				10/12/09 22:09
Alkalinity, Total as CaCO3		295	mg/L	5.0	104	80	120	1	20	
Method: A2540 C										Batch: 091013_2_SLDS-TDS-W
Sample ID: MBLK1_091013		Method Blank				Run: BAL-1_091013B				10/13/09 08:48
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091013		Laboratory Control Sample				Run: BAL-1_091013B				10/13/09 08:48
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C09100437-001AMS		Sample Matrix Spike				Run: BAL-1_091013B				10/13/09 08:51
Solids, Total Dissolved TDS @ 180 C		2220	mg/L	10	102	90	110			
Sample ID: C09100437-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091013B				10/13/09 08:51
Solids, Total Dissolved TDS @ 180 C		2220	mg/L	10	102	90	110	0.2	10	
Method: A2540 C										Batch: 091014_2_SLDS-TDS-W
Sample ID: MBLK1_091014		Method Blank				Run: BAL-1_091014A				10/14/09 09:56
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091014		Laboratory Control Sample				Run: BAL-1_091014A				10/14/09 09:57
Solids, Total Dissolved TDS @ 180 C		993	mg/L	10	99	90	110			
Sample ID: C09100424-007BMS		Sample Matrix Spike				Run: BAL-1_091014A				10/14/09 09:59
Solids, Total Dissolved TDS @ 180 C		2400	mg/L	10	103	90	110			
Sample ID: C09100424-007BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091014A				10/14/09 10:00
Solids, Total Dissolved TDS @ 180 C		2400	mg/L	10	103	90	110	0.4	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-091013C	
Sample ID: MBLK	Method Blank					Run: CVAA-C202_091013C			10/13/09 14:39	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 1006	Laboratory Control Sample					Run: CVAA-C202_091013C			10/13/09 14:41	
Selenium-IV		0.0490	mg/L	0.0010	98	90	110			
Sample ID: C09100423-001DMS	Sample Matrix Spike					Run: CVAA-C202_091013C			10/13/09 14:48	
Selenium-IV		0.0500	mg/L	0.0010	100	85	115			
Sample ID: C09100423-001DMSD	Sample Matrix Spike Duplicate					Run: CVAA-C202_091013C			10/13/09 14:50	
Selenium-IV		0.0511	mg/L	0.0010	102	85	115	2.1	10	
Method: A4500-Cl B									Batch: 091012A-CL-TTR-W	
Sample ID: MBLK9-091012A	Method Blank					Run: TITRATION_091012A			10/12/09 09:02	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-091012A	Laboratory Control Sample					Run: TITRATION_091012A			10/12/09 11:19	
Chloride		3570	mg/L	1.0	101	90	110			
Sample ID: C09100425-003AMS	Sample Matrix Spike					Run: TITRATION_091012A			10/12/09 12:05	
Chloride		604	mg/L	1.0	98	90	110			
Sample ID: C09100425-003AMSD	Sample Matrix Spike Duplicate					Run: TITRATION_091012A			10/12/09 12:07	
Chloride		611	mg/L	1.0	100	90	110	1.2	10	
Method: A4500-H B								Analytical Run: ORION555A-2_091013A		
Sample ID: ICV1_091013_1	Initial Calibration Verification Standard								10/13/09 15:02	
pH		6.92	s.u.	0.010	101	98	102			
Method: A4500-H B									Batch: 091013_1__555A-2	
Sample ID: C09100425-004ADUP	Sample Duplicate					Run: ORION555A-2_091013A			10/13/09 16:23	
pH		7.55	s.u.	0.010				1.8	10	
Method: A4500-NH3 G									Batch: R125180	
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_091015A			10/15/09 09:18	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_091015A			10/15/09 09:20	
Nitrogen, Ammonia as N		19.4	mg/L	0.20	97	80	120			
Sample ID: C09100504-002EMS	Sample Matrix Spike					Run: TECHNICON_091015A			10/15/09 13:12	
Nitrogen, Ammonia as N		2.69	mg/L	0.050	125	80	120			S
Sample ID: C09100504-002EMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_091015A			10/15/09 13:13	
Nitrogen, Ammonia as N		2.66	mg/L	0.050	124	80	120	1.1	20	S

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 091014_1_SO4-TURB-W	
Sample ID: LCS-1_091014		Laboratory Control Sample				Run: TURB-2_091014A			10/14/09 15:04	
Sulfate		4610	mg/L	59	96	90	110			
Sample ID: MBLK-1_091014		Method Blank				Run: TURB-2_091014A			10/14/09 15:07	
Sulfate		ND	mg/L	0.6						
Sample ID: C09100428-008AMS		Sample Matrix Spike				Run: TURB-2_091014A			10/14/09 16:37	
Sulfate		21.7	mg/L	1.0	107	90	110			
Sample ID: C09100428-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091014A			10/14/09 16:37	
Sulfate		21.9	mg/L	1.0	109	90	110	1.3	10	
Method: E1632AM									Analytical Run: SUB-H57494	
Sample ID: AS091019-10		CRDL Standard for ICP							10/19/09 12:05	
Arsenic-III		11.2	ug/L	5.0	112	50	150			
Sample ID: AS091019-ICV		Initial Calibration Verification Standard							10/19/09 11:49	
Arsenic-III		22.9	ug/L	5.0	92	90	110			
Sample ID: AS091019-50		Continuing Calibration Verification Standard							10/19/09 14:28	
Arsenic-III		51.2	ug/L	5.0	102	90	110			
Sample ID: AS091019-50		Continuing Calibration Verification Standard							10/19/09 16:56	
Arsenic-III		46.9	ug/L	5.0	94	90	110			
Method: E1632AM									Batch: H_R57494	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H57494			10/19/09 12:22	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS091019-LCS		Laboratory Control Sample				Run: SUB-H57494			10/19/09 12:30	
Arsenic-III		45.6	ug/L	5.0	91	90	110			
Sample ID: H09100189-002E MS		Sample Matrix Spike				Run: SUB-H57494			10/19/09 12:58	
Arsenic-III		45.7	ug/L	5.0	91	80	120			
Sample ID: H09100189-002E MSD		Sample Matrix Spike Duplicate				Run: SUB-H57494			10/19/09 13:06	
Arsenic-III		42.7	ug/L	5.0	85	80	120	6.7	20	
Sample ID: H09100188-003E MS		Sample Matrix Spike				Run: SUB-H57494			10/19/09 17:22	
Arsenic-III		43.7	ug/L	5.0	87	80	120			
Sample ID: H09100188-003E MSD		Sample Matrix Spike Duplicate				Run: SUB-H57494			10/19/09 17:30	
Arsenic-III		44.2	ug/L	5.0	88	80	120	1.1	20	
Sample ID: C09100425-004E		Sample Duplicate				Run: SUB-H57494			10/19/09 17:47	
Arsenic-III		ND	ug/L	5.0					20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125243
Sample ID: MB-091016A	4	Method Blank				Run: ICP2-C_091016A				10/16/09 11:02
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-091016A	4	Laboratory Fortified Blank				Run: ICP2-C_091016A				10/16/09 11:06
Calcium		47.6	mg/L	0.50	95	85	115			
Magnesium		49.9	mg/L	0.50	100	85	115			
Potassium		43.3	mg/L	0.50	87	85	115			
Sodium		43.8	mg/L	0.50	88	85	115			
Sample ID: C09100425-001CMS2	4	Sample Matrix Spike				Run: ICP2-C_091016A				10/16/09 13:10
Calcium		904	mg/L	2.5	92	70	130			
Magnesium		1310	mg/L	1.0	99	70	130			
Potassium		458	mg/L	1.0	88	70	130			
Sodium		784	mg/L	2.3	98	70	130			
Sample ID: C09100425-001CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091016A				10/16/09 13:14
Calcium		936	mg/L	2.5	98	70	130	3.5	20	
Magnesium		1300	mg/L	1.0	96	70	130	1	20	
Potassium		453	mg/L	1.0	87	70	130	1	20	
Sodium		788	mg/L	2.3	98	70	130	0.5	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R125142
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_091014A				10/14/09 16:34
Aluminum		0.008	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_091014A				10/14/09 16:41
Aluminum		0.0555	mg/L	0.0022	95	85	115			
Beryllium		0.0530	mg/L	0.0010	106	85	115			
Cadmium		0.0531	mg/L	0.0010	106	85	115			
Cobalt		0.0526	mg/L	0.0010	105	85	115			
Lead		0.0539	mg/L	0.0010	108	85	115			
Manganese		0.0526	mg/L	0.0010	105	85	115			
Molybdenum		0.0530	mg/L	0.0010	106	85	115			
Nickel		0.0529	mg/L	0.0010	106	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Vanadium		0.0523	mg/L	0.0010	104	85	115			
Sample ID: C09100425-004DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_091014A				10/15/09 04:25
Aluminum		0.0513	mg/L	0.0061	89	70	130			
Beryllium		0.0488	mg/L	0.010	98	70	130			
Cadmium		0.0510	mg/L	0.010	101	70	130			
Cobalt		0.0490	mg/L	0.010	98	70	130			
Lead		0.0528	mg/L	0.050	102	70	130			
Manganese		0.0510	mg/L	0.010	99	70	130			
Molybdenum		0.0498	mg/L	0.0010	100	70	130			
Nickel		0.0495	mg/L	0.0010	99	70	130			
Uranium		0.0491	mg/L	0.00030	98	70	130			
Vanadium		0.0496	mg/L	0.0020	99	70	130			
Sample ID: C09100425-004DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091014A				10/15/09 04:32
Aluminum		0.0608	mg/L	0.0061	108	70	130	17	20	
Beryllium		0.0485	mg/L	0.010	97	70	130	0.6	20	
Cadmium		0.0513	mg/L	0.010	101	70	130	0.6	20	
Cobalt		0.0489	mg/L	0.010	98	70	130	0.3	20	
Lead		0.0531	mg/L	0.050	102	70	130	0.5	20	
Manganese		0.0509	mg/L	0.010	99	70	130	0.2	20	
Molybdenum		0.0495	mg/L	0.0010	99	70	130	0.7	20	
Nickel		0.0497	mg/L	0.0010	99	70	130	0.3	20	
Uranium		0.0491	mg/L	0.00030	98	70	130	0	20	
Vanadium		0.0493	mg/L	0.0020	99	70	130	0.6	20	

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QA/QC Summary Report

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Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R125241
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091016B				10/16/09 14:23
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091016B				10/16/09 14:25
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	105	90	110			
Sample ID: C09100574-001HMS		Sample Matrix Spike				Run: TECHNICON_091016B				10/16/09 16:35
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	103	90	110			
Sample ID: C09100574-001HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016B				10/16/09 16:38
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	1	10	
Method: E353.2										Batch: R125301
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091019A				10/19/09 11:24
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: C09100457-001CMS		Sample Matrix Spike				Run: TECHNICON_091019A				10/19/09 11:50
Nitrogen, Nitrate+Nitrite as N		3.71	mg/L	0.10	120	90	110			S
Sample ID: C09100457-001CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091019A				10/19/09 11:52
Nitrogen, Nitrate+Nitrite as N		3.65	mg/L	0.10	117	90	110	1.6	10	S
Sample ID: LCS-33		Laboratory Control Sample				Run: TECHNICON_091019A				10/19/09 12:52
Nitrogen, Nitrate+Nitrite as N		2.74	mg/L	0.10	110	90	110			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125167
Sample ID: 14-Oct-09_LCS_2	9	Laboratory Control Sample				Run: 5975VOC1_091014A				10/14/09 11:24
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		9.56	ug/L	1.0	96	70	130			
Chlorodibromomethane		9.96	ug/L	1.0	100	70	130			
Chloroform		10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total		39.4	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: 14-Oct-09_MBLK_6	9	Method Blank				Run: 5975VOC1_091014A				10/14/09 13:46
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	102	80	120			
Surr: p-Bromofluorobenzene				1.0	96	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100425-003IMS	9	Sample Matrix Spike				Run: 5975VOC1_091014A				10/14/09 18:57
Bromodichloromethane		205	ug/L	20	102	70	130			
Bromoform		198	ug/L	20	99	70	130			
Chlorodibromomethane		205	ug/L	20	102	70	130			
Chloroform		270	ug/L	20	115	70	130			
Trihalomethanes, Total		878	ug/L	20	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	109	80	120			
Surr: p-Bromofluorobenzene				20	110	80	120			
Surr: Toluene-d8				20	97	80	120			
Sample ID: C09100425-003IMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091014A				10/14/09 19:32
Bromodichloromethane		206	ug/L	20	103	70	130	0.8	20	
Bromoform		204	ug/L	20	102	70	130	2.8	20	
Chlorodibromomethane		208	ug/L	20	104	70	130	1.6	20	
Chloroform		272	ug/L	20	116	70	130	0.9	20	
Trihalomethanes, Total		890	ug/L	20	106	70	130	1.4	20	
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	106	80	120			
Surr: p-Bromofluorobenzene				20	108	80	120			
Surr: Toluene-d8				20	96	80	120			

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QA/QC Summary Report

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Project: Zone 1

Report Date: 11/20/09
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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0273
Sample ID: MB-GA-0273	3	Method Blank				Run: TENNELEC-3_091022A				10/27/09 20:36
Gross Alpha minus Rn & U		0.6	pCi/L							
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0273		Laboratory Control Sample				Run: TENNELEC-3_091022A				10/27/09 20:36
Gross Alpha minus Rn & U		27.7	pCi/L		103	70	130			
Sample ID: C09100064-001AMS		Sample Matrix Spike				Run: TENNELEC-3_091022A				10/27/09 20:36
Gross Alpha minus Rn & U		149	pCi/L		170	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: C09100064-001AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091022A				10/27/09 20:36
Gross Alpha minus Rn & U		128	pCi/L		129	70	130	16	17.4	
Method: E903.0										Batch: RA226-4116
Sample ID: C09100837-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091023C				11/05/09 14:22
Radium 226		15	pCi/L		91	70	130			
Sample ID: C09100837-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091023C				11/05/09 14:22
Radium 226		16	pCi/L		98	70	130	6.7	25.3	
Sample ID: MB-RA226-4116	3	Method Blank				Run: BERTHOLD 770-2_091023C				11/06/09 00:14
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4116		Laboratory Control Sample				Run: BERTHOLD 770-2_091023C				11/06/09 00:14
Radium 226		8.1	pCi/L		104	70	130			
Method: E907.0										Batch: RA-TH-ISO-0969
Sample ID: LCS-RA-TH-ISO-0969		Laboratory Control Sample				Run: EGG-ORTEC_091023B				10/30/09 17:12
Thorium 230		5.58	pCi/L		103	70	130			
Sample ID: C09100635-006FMS		Sample Matrix Spike				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.7	pCi/L		85	70	130			
Sample ID: C09100635-006FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.4	pCi/L		85	70	130	2.3	39.6	
Sample ID: MB-RA-TH-ISO-0969	3	Method Blank				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		-0.02	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	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.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R126439
Sample ID: C09050246-004CMS		Sample Matrix Spike				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		99	pCi/L		87	70	130			
Sample ID: C09050246-004CMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		100	pCi/L		89	70	130	2.4	30	
Sample ID: MB-R126439	3	Method Blank				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		-0.3	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R126439		Laboratory Control Sample				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		93	pCi/L		82	70	130			
Method: RA-05										Batch: RA228-2932
Sample ID: LCS-228-RA226-4116		Laboratory Control Sample				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		9.64	pCi/L		111	70	130			
Sample ID: MB-RA226-4116	3	Method Blank				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100837-003DMS		Sample Matrix Spike				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		18.3	pCi/L		106	70	130			
Sample ID: C09100837-003DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		16.2	pCi/L		93	70	130	12	33.5	

Qualifiers:

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U - Not detected at minimum detectable concentration

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ANALYTICAL SUMMARY REPORT

November 20, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09100635 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 6 samples for United Nuclear Corp on 10/15/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100635-001	EPA-4	10/12/09 09:00	10/15/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09100635-002	EPA-5	10/12/09 09:54	10/15/09	Aqueous	Same As Above
C09100635-003	EPA-7	10/12/09 10:35	10/15/09	Aqueous	Same As Above
C09100635-004	EPA-2	10/12/09 11:24	10/15/09	Aqueous	Same As Above
C09100635-005	EPA-2 Duplicate	10/12/09 11:55	10/15/09	Aqueous	Same As Above
C09100635-006	TWQ-142	10/13/09 14:40	10/15/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C09100635

Date: 20-Nov-09

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 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 Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R125312
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091019A				10/19/09 11:17
Alkalinity, Total as CaCO3		0.8	mg/L	0.2						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091019A				10/19/09 11:28
Alkalinity, Total as CaCO3		202	mg/L	5.0	100	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091019A				10/19/09 11:36
Alkalinity, Total as CaCO3		53.9	mg/L	5.0	106	90	110			
Sample ID: C09100635-005AMS		Sample Matrix Spike				Run: MANTECH_091019A				10/19/09 21:08
Alkalinity, Total as CaCO3		403	mg/L	5.0	105	80	120			
Sample ID: C09100635-005AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091019A				10/19/09 21:16
Alkalinity, Total as CaCO3		407	mg/L	5.0	108	80	120	0.9	20	
Method: A2540 C										Batch: 091019_1_SLDS-TDS-W
Sample ID: MBLK1_091019		Method Blank				Run: BAL-1_091019A				10/19/09 09:11
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091019		Laboratory Control Sample				Run: BAL-1_091019A				10/19/09 09:12
Solids, Total Dissolved TDS @ 180 C		983	mg/L	10	98	90	110			
Sample ID: C09100573-002AMS		Sample Matrix Spike				Run: BAL-1_091019A				10/19/09 09:16
Solids, Total Dissolved TDS @ 180 C		4270	mg/L	10	100	90	110			
Sample ID: C09100573-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091019A				10/19/09 09:16
Solids, Total Dissolved TDS @ 180 C		4230	mg/L	10	98	90	110	1	10	
Sample ID: C09100679-001AMS		Sample Matrix Spike				Run: BAL-1_091019A				10/19/09 09:19
Solids, Total Dissolved TDS @ 180 C		2950	mg/L	10	105	90	110			
Sample ID: C09100679-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091019A				10/19/09 09:19
Solids, Total Dissolved TDS @ 180 C		2860	mg/L	10	101	90	110	2.8	10	
Method: A2540 C										Batch: 091022_2_SLDS-TDS-W
Sample ID: MBLK1_091022		Method Blank				Run: BAL-1_091022C				10/22/09 11:06
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091022		Laboratory Control Sample				Run: BAL-1_091022C				10/22/09 11:06
Solids, Total Dissolved TDS @ 180 C		979	mg/L	10	98	90	110			
Sample ID: C09100633-006BMS		Sample Matrix Spike				Run: BAL-1_091022C				10/22/09 11:11
Solids, Total Dissolved TDS @ 180 C		2680	mg/L	10	101	90	110			
Sample ID: C09100633-006BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091022C				10/22/09 11:11
Solids, Total Dissolved TDS @ 180 C		2660	mg/L	10	100	90	110	0.7	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-091027C	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_091027C			10/27/09 14:15	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0mg/L-C 102		Laboratory Control Sample				Run: CVAA-C202_091027C			10/27/09 14:17	
Selenium-IV		0.0497	mg/L	0.0010	99	90	110			
Sample ID: C09100637-004DMS		Sample Matrix Spike				Run: CVAA-C202_091027C			10/27/09 14:48	
Selenium-IV		0.0463	mg/L	0.0010	93	85	115			
Sample ID: C09100637-004DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091027C			10/27/09 14:50	
Selenium-IV		0.0471	mg/L	0.0010	94	85	115	1.6	10	
Method: A4500-Cl B									Batch: 091030-CL-TTR-W	
Sample ID: MBLK9-091030		Method Blank				Run: TITRATION_091030A			10/30/09 11:17	
Chloride		ND	mg/L	0.4						
Sample ID: C09101105-007AMS		Sample Matrix Spike				Run: TITRATION_091030A			10/30/09 11:43	
Chloride		244	mg/L	1.0	102	90	110			
Sample ID: C09101105-007AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091030A			10/30/09 11:46	
Chloride		237	mg/L	1.0	98	90	110	2.9	10	
Sample ID: LCS35-091030		Laboratory Control Sample				Run: TITRATION_091030A			10/30/09 11:49	
Chloride		3570	mg/L	1.0	101	90	110			
Method: A4500-Cl B									Batch: 100	
Sample ID: MBLK9-		Method Blank				Run: TITRATION_091019D			10/19/09 08:45	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-		Laboratory Control Sample				Run: TITRATION_091019D			10/19/09 10:52	
Chloride		3570	mg/L	1.0	101	90	110			
Sample ID: C09100635-002AMS		Sample Matrix Spike				Run: TITRATION_091019D			10/19/09 12:16	
Chloride		221	mg/L	1.0	98	90	110			
Sample ID: C09100635-002AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091019D			10/19/09 12:18	
Chloride		222	mg/L	1.0	99	90	110	0.8	10	
Method: A4500-H B								Analytical Run: ORION555A-2_091016A		
Sample ID: ICV1_091016_1		Initial Calibration Verification Standard							10/16/09 11:46	
pH		6.97	s.u.	0.010	102	98	102			
Method: A4500-H B									Batch: 091016_1__555A-2	
Sample ID: C09100561-004BDUP		Sample Duplicate				Run: ORION555A-2_091016A			10/16/09 12:11	
pH		7.32	s.u.	0.010				0.1	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_091021A		
Sample ID: ICV1_091021_1		Initial Calibration Verification Standard							10/21/09 11:22	
pH		6.86	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 091021_1__555A-2		
Sample ID: C09100637-002ADUP		Sample Duplicate				Run: ORION555A-2_091021A			10/21/09 11:49	
pH		3.75	s.u.	0.010				0.3	10	
Sample ID: C09100637-012ADUP		Sample Duplicate				Run: ORION555A-2_091021A			10/21/09 12:16	
pH		7.46	s.u.	0.010				0.1	10	
Method: A4500-NH3 G									Batch: R125214	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091016A			10/16/09 09:17	
Nitrogen, Ammonia as N		0.04	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091016A			10/16/09 09:19	
Nitrogen, Ammonia as N		19.3	mg/L	0.20	96	80	120			
Sample ID: C09100635-004HMS		Sample Matrix Spike				Run: TECHNICON_091016A			10/16/09 12:12	
Nitrogen, Ammonia as N		2.71	mg/L	0.050	115	80	120			
Sample ID: C09100635-004HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016A			10/16/09 12:14	
Nitrogen, Ammonia as N		2.73	mg/L	0.050	116	80	120	0.7	20	
Method: A4500-SO4 E								Batch: 091016_1_SO4-TURB-W		
Sample ID: BLNKB-1_091016		Method Blank				Run: TURB-2_091016A			10/16/09 10:00	
Sulfate		20	mg/L	0.6						
Sample ID: LCS-1_091016		Laboratory Control Sample				Run: TURB-2_091016A			10/16/09 10:03	
Sulfate		4870	mg/L	59	101	90	110			
Sample ID: C09100635-002AMS		Sample Matrix Spike				Run: TURB-2_091016A			10/16/09 12:07	
Sulfate		5030	mg/L	59	97	90	110			
Sample ID: C09100635-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091016A			10/16/09 12:10	
Sulfate		5080	mg/L	59	99	90	110	1	10	
Method: A4500-SO4 E								Batch: 091028_1_SO4-TURB-W		
Sample ID: LCS-1_091028		Laboratory Control Sample				Run: TURB-2_090828A			10/28/09 11:30	
Sulfate		4820	mg/L	59	100	90	110			
Sample ID: MBLK-1_091028		Method Blank				Run: TURB-2_090828A			10/28/09 11:31	
Sulfate		ND	mg/L	0.6						
Sample ID: C09100623-009AMS		Sample Matrix Spike				Run: TURB-2_090828A			10/28/09 11:32	
Sulfate		4270	mg/L	59	103	90	110			
Sample ID: C09100623-009AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_090828A			10/28/09 11:33	
Sulfate		4220	mg/L	59	100	90	110	1.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R57743
Sample ID: MBLK_13r		Method Blank				Run: SUB-H57743				10/29/09 12:43
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS091029-LCS		Laboratory Control Sample				Run: SUB-H57743				10/29/09 12:52
Arsenic-III		45.5	ug/L	5.0	91	90	110			
Sample ID: H09100361-002A MS		Sample Matrix Spike				Run: SUB-H57743				10/29/09 13:19
Arsenic-III		51.9	ug/L	5.0	92	80	120			
Sample ID: H09100361-002A MSD		Sample Matrix Spike Duplicate				Run: SUB-H57743				10/29/09 13:27
Arsenic-III		50.0	ug/L	5.0	88	80	120	3.6	20	
Method: E200.7										Batch: R125476
Sample ID: MB-091022A	4	Method Blank				Run: ICP2-C_091022A				10/22/09 11:00
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091022A	4	Laboratory Fortified Blank				Run: ICP2-C_091022A				10/22/09 11:04
Calcium		49.0	mg/L	0.50	98	85	115			
Magnesium		48.3	mg/L	0.50	97	85	115			
Potassium		46.1	mg/L	0.50	92	85	115			
Sodium		45.8	mg/L	0.50	92	85	115			
Sample ID: C09100635-002CMS2	4	Sample Matrix Spike				Run: ICP2-C_091022A				10/22/09 17:35
Calcium		698	mg/L	1.3	90	70	130			
Magnesium		729	mg/L	1.0	94	70	130			
Potassium		239	mg/L	1.0	91	70	130			
Sodium		363	mg/L	1.2	97	70	130			
Sample ID: C09100635-002CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091022A				10/22/09 17:39
Calcium		679	mg/L	1.3	82	70	130	2.8	20	
Magnesium		732	mg/L	1.0	96	70	130	0.5	20	
Potassium		240	mg/L	1.0	91	70	130	0.1	20	
Sodium		366	mg/L	1.2	99	70	130	0.8	20	

Qualifiers:

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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125654
Sample ID: MB-091027A	4	Method Blank				Run: ICP2-C_091027A				10/27/09 11:23
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-091027A	4	Laboratory Fortified Blank				Run: ICP2-C_091027A				10/27/09 11:27
Calcium		48.1	mg/L	0.50	96	85	115			
Magnesium		48.0	mg/L	0.50	96	85	115			
Potassium		44.6	mg/L	0.50	89	85	115			
Sodium		44.6	mg/L	0.50	89	85	115			
Sample ID: C09100421-010CMS2	4	Sample Matrix Spike				Run: ICP2-C_091027A				10/27/09 12:23
Calcium		1220	mg/L	2.5	95	70	130			
Magnesium		1110	mg/L	1.0	93	70	130			
Potassium		465	mg/L	1.0	90	70	130			
Sodium		804	mg/L	2.3	94	70	130			
Sample ID: C09100421-010CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091027A				10/27/09 12:28
Calcium		1240	mg/L	2.5	98	70	130	1.3	20	
Magnesium		1140	mg/L	1.0	98	70	130	2.2	20	
Potassium		471	mg/L	1.0	91	70	130	1.3	20	
Sodium		794	mg/L	2.3	92	70	130	1.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R125320	
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_091019A			10/19/09 12:37	
Aluminum		0.004	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_091019A			10/19/09 12:44	
Aluminum		0.0508	mg/L	0.0022	94	85	115			
Beryllium		0.0504	mg/L	0.0010	101	85	115			
Cadmium		0.0502	mg/L	0.0010	100	85	115			
Cobalt		0.0495	mg/L	0.0010	99	85	115			
Lead		0.0502	mg/L	0.0010	100	85	115			
Manganese		0.0493	mg/L	0.0010	99	85	115			
Molybdenum		0.0503	mg/L	0.0010	101	85	115			
Nickel		0.0504	mg/L	0.0010	101	85	115			
Uranium		0.0487	mg/L	0.00030	97	85	115			
Vanadium		0.0490	mg/L	0.0010	98	85	115			
Sample ID: C09100637-004DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_091019A			10/19/09 16:08	
Aluminum		0.504	mg/L	0.10	46	70	130			S
Beryllium		0.253	mg/L	0.010	100	70	130			
Cadmium		0.247	mg/L	0.010	99	70	130			
Cobalt		0.575	mg/L	0.010	102	70	130			
Lead		0.254	mg/L	0.050	102	70	130			
Manganese		5.90	mg/L	0.010		70	130			A
Molybdenum		0.438	mg/L	0.10	103	70	130			
Nickel		0.529	mg/L	0.050	95	70	130			
Uranium		0.270	mg/L	0.00030	102	70	130			
Vanadium		0.246	mg/L	0.10	99	70	130			
Sample ID: C09100637-004DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091019A			10/19/09 16:14	
Aluminum		0.476	mg/L	0.10	35	70	130	5.8	20	S
Beryllium		0.253	mg/L	0.010	100	70	130	0.4	20	
Cadmium		0.251	mg/L	0.010	100	70	130	1.4	20	
Cobalt		0.586	mg/L	0.010	106	70	130	1.9	20	
Lead		0.254	mg/L	0.050	101	70	130	0.3	20	
Manganese		5.94	mg/L	0.010		70	130	0.6	20	A
Molybdenum		0.446	mg/L	0.10	106	70	130	1.7	20	
Nickel		0.536	mg/L	0.050	98	70	130	1.2	20	
Uranium		0.271	mg/L	0.00030	102	70	130	0.4	20	
Vanadium		0.250	mg/L	0.10	100	70	130	1.5	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R125355
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091020A				10/20/09 12:51
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091020A				10/20/09 12:54
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Sample ID: C09100637-004HMS		Sample Matrix Spike				Run: TECHNICON_091020A				10/20/09 13:46
Nitrogen, Nitrate+Nitrite as N		2.18	mg/L	0.10	107	90	110			
Sample ID: C09100637-004HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091020A				10/20/09 13:49
Nitrogen, Nitrate+Nitrite as N		2.19	mg/L	0.10	107	90	110	0.5	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125330
Sample ID: 19-Oct-09_MBLK_7	9	Method Blank				Run: 5975VOC1_091019B				10/19/09 13:11
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	103	80	120			
Surr: p-Bromofluorobenzene				1.0	94	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100637-013IMS	9	Sample Matrix Spike				Run: 5975VOC1_091019B				10/19/09 18:45
Bromodichloromethane		96.8	ug/L	10	97	70	130			
Bromoform		109	ug/L	10	109	70	130			
Chlorodibromomethane		98.4	ug/L	10	98	70	130			
Chloroform		113	ug/L	10	113	70	130			
Trihalomethanes, Total		417	ug/L	10	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	108	80	120			
Surr: Dibromofluoromethane				10	107	80	120			
Surr: p-Bromofluorobenzene				10	106	80	120			
Surr: Toluene-d8				10	90	80	120			
Sample ID: C09100637-013IMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091019B				10/19/09 19:21
Bromodichloromethane		100	ug/L	10	100	70	130	3.7	20	
Bromoform		112	ug/L	10	112	70	130	2.5	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	2	20	
Chloroform		117	ug/L	10	117	70	130	3.8	20	
Trihalomethanes, Total		430	ug/L	10	107	70	130	3	20	
Surr: 1,2-Dichlorobenzene-d4				10	108	80	120			
Surr: Dibromofluoromethane				10	110	80	120			
Surr: p-Bromofluorobenzene				10	108	80	120			
Surr: Toluene-d8				10	91	80	120			
Sample ID: 19-Oct-09_LCS_4	9	Laboratory Control Sample				Run: 5975VOC1_091019B				10/19/09 11:24
Bromodichloromethane		9.32	ug/L	1.0	93	70	130			
Bromoform		9.44	ug/L	1.0	94	70	130			
Chlorodibromomethane		9.64	ug/L	1.0	96	70	130			
Chloroform		10.8	ug/L	1.0	108	70	130			
Trihalomethanes, Total		39.2	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125549
Sample ID: 102109_LCS_3	9	Laboratory Control Sample				Run: SATURNCA_091021C				10/21/09 12:48
Bromodichloromethane		10.1	ug/L	1.0	101	70	130			
Bromoform		10.5	ug/L	1.0	105	70	130			
Chlorodibromomethane		8.92	ug/L	1.0	89	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	108	80	120			
Surr: Dibromofluoromethane				1.0	122	80	120			S
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	109	80	120			
Sample ID: 102109_MBLK_6	9	Method Blank				Run: SATURNCA_091021C				10/21/09 14:55
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	115	80	120			
Surr: p-Bromofluorobenzene				1.0	98	80	120			
Surr: Toluene-d8				1.0	110	80	120			
Sample ID: C09100637-014IMS	9	Sample Matrix Spike				Run: SATURNCA_091021C				10/22/09 06:13
Bromodichloromethane		111	ug/L	10	111	70	130			
Bromoform		110	ug/L	10	110	70	130			
Chlorodibromomethane		117	ug/L	10	117	70	130			
Chloroform		99.2	ug/L	10	99	70	130			
Trihalomethanes, Total		437	ug/L	10	109	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	102	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	91	80	120			
Surr: Toluene-d8				10	110	80	120			
Sample ID: C09100637-014IMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_091021C				10/22/09 06:52
Bromodichloromethane		117	ug/L	10	117	70	130	5.6	20	
Bromoform		118	ug/L	10	118	70	130	7	20	
Chlorodibromomethane		122	ug/L	10	122	70	130	4	20	
Chloroform		98.0	ug/L	10	98	70	130	1.2	20	
Trihalomethanes, Total		455	ug/L	10	114	70	130	4	20	
Surr: 1,2-Dichlorobenzene-d4				10	109	80	120			
Surr: Dibromofluoromethane				10	104	80	120			
Surr: p-Bromofluorobenzene				10	94	80	120			
Surr: Toluene-d8				10	113	80	120			

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0280
Sample ID: MB-GA-0280	3	Method Blank				Run: BERTHOLD 770-1_091109B				11/12/09 12:45
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.5	pCi/L							
Gross Alpha minus Rn & U MDC		0.8	pCi/L							
Sample ID: LCS-GA-0280		Laboratory Control Sample				Run: BERTHOLD 770-1_091109B				11/12/09 12:45
Gross Alpha minus Rn & U		29.9	pCi/L		113	70	130			
Sample ID: C09100635-001FMS		Sample Matrix Spike				Run: BERTHOLD 770-1_091109B				11/12/09 14:21
Gross Alpha minus Rn & U		27.3	pCi/L		97	70	130			
Sample ID: C09100635-001FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_091109B				11/12/09 14:21
Gross Alpha minus Rn & U		30.9	pCi/L		111	70	130	12	25	
Method: E903.0										Batch: RA226-4130
Sample ID: C09100626-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091028A				11/09/09 13:01
Radium 226		15	pCi/L		98	70	130			
Sample ID: C09100626-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091028A				11/09/09 13:01
Radium 226		15	pCi/L		98	70	130	0.4	25.2	
Sample ID: MB-RA226-4130	3	Method Blank				Run: BERTHOLD 770-2_091028A				11/09/09 14:34
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4130		Laboratory Control Sample				Run: BERTHOLD 770-2_091028A				11/09/09 14:34
Radium 226		8.3	pCi/L		108	70	130			
Method: E907.0										Batch: RA-TH-ISO-0969
Sample ID: LCS-RA-TH-ISO-0969		Laboratory Control Sample				Run: EGG-ORTEC_091023B				10/30/09 17:12
Thorium 230		5.58	pCi/L		103	70	130			
Sample ID: C09100635-006FMS		Sample Matrix Spike				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.7	pCi/L		85	70	130			
Sample ID: C09100635-006FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.4	pCi/L		85	70	130	2.3	39.6	
Sample ID: MB-RA-TH-ISO-0969	3	Method Blank				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		-0.02	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

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U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 11/20/09
Work Order: C09100635

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R126714
Sample ID: C09070060-001AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_091111B				11/11/09 06:41
Lead 210		150	pCi/L		131	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: C09070060-001AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_091111B				11/11/09 06:41
Lead 210		130	pCi/L		116	70	130	12	30	
Sample ID: MB-R126714	3	Method Blank				Run: BECKMAN 6100TA_091111B				11/11/09 06:41
Lead 210		1	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		7	pCi/L							
Sample ID: LCS-R126714		Laboratory Control Sample				Run: BECKMAN 6100TA_091111B				11/11/09 06:41
Lead 210		120	pCi/L		109	70	130			
Method: RA-05										Batch: RA228-2937
Sample ID: LCS-228-RA226-4130		Laboratory Control Sample				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		9.8	pCi/L		119	70	130			
Sample ID: MB-RA226-4130	3	Method Blank				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		-0.06	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100626-002DMS		Sample Matrix Spike				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		19	pCi/L		108	70	130			
Sample ID: C09100626-002DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		18	pCi/L		106	70	130	1.9	32.8	

Qualifiers:

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

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ANALYTICAL SUMMARY REPORT

November 20, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09100423 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corp on 10/9/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100423-001	EPA-14	10/06/09 10:10	10/09/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Sample Filtering 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 Sulfate E624 Purgeable Organics
C09100423-002	613	10/07/09 10:40	10/09/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C09100423

Date: 20-Nov-09

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 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 Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R124988
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091012A				10/12/09 11:49
Alkalinity, Total as CaCO3		ND	mg/L	0.2						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:04
Alkalinity, Total as CaCO3		199	mg/L	5.0	100	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091012A				10/12/09 12:11
Alkalinity, Total as CaCO3		52.4	mg/L	5.0	105	90	110			
Sample ID: C09100424-001AMS		Sample Matrix Spike				Run: MANTECH_091012A				10/12/09 18:36
Alkalinity, Total as CaCO3		389	mg/L	5.0	103	80	120			
Sample ID: C09100424-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091012A				10/12/09 18:43
Alkalinity, Total as CaCO3		391	mg/L	5.0	105	80	120	0.5	20	
Method: A2540 C										Batch: 091012_2_SLDS-TDS-W
Sample ID: MBLK1_091012		Method Blank				Run: BAL-1_091012C				10/12/09 13:28
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091012		Laboratory Control Sample				Run: BAL-1_091012C				10/12/09 13:32
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C09100423-001BMS		Sample Matrix Spike				Run: BAL-1_091012C				10/12/09 13:35
Solids, Total Dissolved TDS @ 180 C		8480	mg/L	10	101	90	110			
Sample ID: C09100423-001BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091012C				10/12/09 13:35
Solids, Total Dissolved TDS @ 180 C		8440	mg/L	10	99	90	110	0.5	10	
Method: A2540 C										Batch: 091014_2_SLDS-TDS-W
Sample ID: MBLK1_091014		Method Blank				Run: BAL-1_091014A				10/14/09 09:56
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091014		Laboratory Control Sample				Run: BAL-1_091014A				10/14/09 09:57
Solids, Total Dissolved TDS @ 180 C		993	mg/L	10	99	90	110			
Sample ID: C09100424-007BMS		Sample Matrix Spike				Run: BAL-1_091014A				10/14/09 09:59
Solids, Total Dissolved TDS @ 180 C		2400	mg/L	10	103	90	110			
Sample ID: C09100424-007BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091014A				10/14/09 10:00
Solids, Total Dissolved TDS @ 180 C		2400	mg/L	10	103	90	110	0.4	10	

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-091013C	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_091013C			10/13/09 14:39	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 1006		Laboratory Control Sample				Run: CVAA-C202_091013C			10/13/09 14:41	
Selenium-IV		0.0490	mg/L	0.0010	98	90	110			
Sample ID: C09100423-001DMS		Sample Matrix Spike				Run: CVAA-C202_091013C			10/13/09 14:48	
Selenium-IV		0.0500	mg/L	0.0010	100	85	115			
Sample ID: C09100423-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091013C			10/13/09 14:50	
Selenium-IV		0.0511	mg/L	0.0010	102	85	115	2.1	10	
Method: A3114 B									Batch: SE3114-091117A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_091117A			11/17/09 10:51	
Selenium		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 1117		Laboratory Control Sample				Run: CVAA-C202_091117A			11/17/09 10:58	
Selenium		0.0529	mg/L	0.0010	106	90	110			
Sample ID: C09100423-002DMS		Sample Matrix Spike				Run: CVAA-C202_091117A			11/17/09 11:46	
Selenium-IV		0.0447	mg/L	0.0010	87	85	115			
Sample ID: C09100423-002DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091117A			11/17/09 11:48	
Selenium-IV		0.0464	mg/L	0.0010	90	85	115	3.7	10	
Method: A4500-Cl B									Batch: 091012A-CL-TTR-W	
Sample ID: MBLK9-091012A		Method Blank				Run: TITRATION_091012A			10/12/09 09:02	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-091012A		Laboratory Control Sample				Run: TITRATION_091012A			10/12/09 11:19	
Chloride		3570	mg/L	1.0	101	90	110			
Sample ID: C09100425-003AMS		Sample Matrix Spike				Run: TITRATION_091012A			10/12/09 12:05	
Chloride		604	mg/L	1.0	98	90	110			
Sample ID: C09100425-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091012A			10/12/09 12:07	
Chloride		611	mg/L	1.0	100	90	110	1.2	10	
Method: A4500-H B									Analytical Run: ORION555A-2_091013A	
Sample ID: ICV1_091013_1		Initial Calibration Verification Standard							10/13/09 15:02	
pH		6.92	s.u.	0.010	101	98	102			
Method: A4500-H B									Batch: 091013_1__555A-2	
Sample ID: C09100487-001ADUP		Sample Duplicate				Run: ORION555A-2_091014A			10/14/09 09:26	
pH		7.97	s.u.	0.010				0.1	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R125180
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091015A				10/15/09 09:18
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091015A				10/15/09 09:20
Nitrogen, Ammonia as N		19.4	mg/L	0.20	97	80	120			
Sample ID: C09100421-014HMS		Sample Matrix Spike				Run: TECHNICON_091015A				10/15/09 12:41
Nitrogen, Ammonia as N		2.30	mg/L	0.050	114	80	120			
Sample ID: C09100421-014HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091015A				10/15/09 12:43
Nitrogen, Ammonia as N		2.35	mg/L	0.050	116	80	120	2.2	20	
Sample ID: C09100504-002EMS		Sample Matrix Spike				Run: TECHNICON_091015A				10/15/09 13:12
Nitrogen, Ammonia as N		2.69	mg/L	0.050	125	80	120			S
Sample ID: C09100504-002EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091015A				10/15/09 13:13
Nitrogen, Ammonia as N		2.66	mg/L	0.050	124	80	120	1.1	20	S
Method: A4500-SO4 E										Batch: 091014_1_SO4-TURB-W
Sample ID: LCS-1_091014		Laboratory Control Sample				Run: TURB-2_091014A				10/14/09 15:04
Sulfate		4610	mg/L	59	96	90	110			
Sample ID: MBLK-1_091014		Method Blank				Run: TURB-2_091014A				10/14/09 15:07
Sulfate		ND	mg/L	0.6						
Sample ID: C09100428-008AMS		Sample Matrix Spike				Run: TURB-2_091014A				10/14/09 16:37
Sulfate		21.7	mg/L	1.0	107	90	110			
Sample ID: C09100428-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091014A				10/14/09 16:37
Sulfate		21.9	mg/L	1.0	109	90	110	1.3	10	
Method: E1632AM										Batch: H_R57494
Sample ID: MBLK_13r		Method Blank				Run: SUB-H57494				10/19/09 12:22
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS091019-LCS		Laboratory Control Sample				Run: SUB-H57494				10/19/09 12:30
Arsenic-III		45.6	ug/L	5.0	91	90	110			
Sample ID: H09100189-002E MS		Sample Matrix Spike				Run: SUB-H57494				10/19/09 12:58
Arsenic-III		45.7	ug/L	5.0	91	80	120			
Sample ID: H09100189-002E MSD		Sample Matrix Spike Duplicate				Run: SUB-H57494				10/19/09 13:06
Arsenic-III		42.7	ug/L	5.0	85	80	120	6.7	20	

Qualifiers:

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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 24013
Sample ID: MB-24013	3	Method Blank				Run: ICP2-C_091013A				10/14/09 00:11
Aluminum		ND	mg/L	0.08						
Beryllium		ND	mg/L	0.008						
Manganese		ND	mg/L	0.007						
Sample ID: LCS3-24013	3	Laboratory Control Sample				Run: ICP2-C_091013A				10/14/09 00:15
Aluminum		2.57	mg/L	0.10	103	85	115			
Beryllium		0.256	mg/L	0.010	102	85	115			
Manganese		2.51	mg/L	0.010	100	85	115			
Sample ID: C09100430-003BMS3	3	Sample Matrix Spike				Run: ICP2-C_091013A				10/14/09 00:44
Aluminum		2.74	mg/L	0.78	110	70	130			
Beryllium		0.266	mg/L	0.083	106	70	130			
Manganese		25.8	mg/L	0.067		70	130			A
Sample ID: C09100430-003BMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_091013A				10/14/09 00:48
Aluminum		2.89	mg/L	0.78	116	70	130	5.3	20	
Beryllium		0.263	mg/L	0.083	105	70	130	1.1	20	
Manganese		24.9	mg/L	0.067		70	130	3.5	20	A
Method: E200.7										Batch: R125363
Sample ID: MB-091020A	4	Method Blank				Run: ICP2-C_091020A				10/20/09 12:10
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091020A	4	Laboratory Fortified Blank				Run: ICP2-C_091020A				10/20/09 12:14
Calcium		51.4	mg/L	0.50	103	85	115			
Magnesium		49.0	mg/L	0.50	98	85	115			
Potassium		44.8	mg/L	0.50	90	85	115			
Sodium		49.5	mg/L	0.50	99	85	115			
Sample ID: C09100657-007BMS2	4	Sample Matrix Spike				Run: ICP2-C_091020A				10/20/09 14:29
Calcium		161	mg/L	1.0	102	70	130			
Magnesium		111	mg/L	1.0	97	70	130			
Potassium		93.6	mg/L	1.0	91	70	130			
Sodium		103	mg/L	1.0	99	70	130			
Sample ID: C09100657-007BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091020A				10/20/09 14:33
Calcium		160	mg/L	1.0	101	70	130	0.6	20	
Magnesium		113	mg/L	1.0	99	70	130	2.2	20	
Potassium		94.7	mg/L	1.0	92	70	130	1.1	20	
Sodium		102	mg/L	1.0	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24013
Sample ID: MB-24013	7	Method Blank				Run: ICPMS4-C_091013A				10/13/09 15:06
Cadmium		ND	mg/L	5E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	9E-05						
Molybdenum		0.0003	mg/L	0.0001						
Nickel		9E-05	mg/L	6E-05						
Uranium		ND	mg/L	7E-05						
Vanadium		0.005	mg/L	4E-05						
Sample ID: LCS3-24013	7	Laboratory Control Sample				Run: ICPMS4-C_091013A				10/13/09 15:13
Cadmium		0.277	mg/L	0.010	111	85	115			
Cobalt		0.472	mg/L	0.010	94	85	115			
Lead		0.514	mg/L	0.050	103	85	115			
Molybdenum		0.518	mg/L	0.10	103	85	115			
Nickel		0.507	mg/L	0.050	101	85	115			
Uranium		0.539	mg/L	0.00030	108	85	115			
Vanadium		0.497	mg/L	0.10	98	85	115			
Sample ID: C09100430-003BMS3	7	Sample Matrix Spike				Run: ICPMS4-C_091013A				10/13/09 16:35
Cadmium		0.267	mg/L	0.010	107	70	130			
Cobalt		0.490	mg/L	0.010	98	70	130			
Lead		0.562	mg/L	0.050	112	70	130			
Molybdenum		0.587	mg/L	0.10	117	70	130			
Nickel		0.557	mg/L	0.050	103	70	130			
Uranium		0.603	mg/L	0.00030	120	70	130			
Vanadium		0.569	mg/L	0.10	109	70	130			
Sample ID: C09100430-003BMSD	7	Sample Matrix Spike Duplicate				Run: ICPMS4-C_091013A				10/13/09 16:41
Cadmium		0.258	mg/L	0.010	103	70	130	3.2	20	
Cobalt		0.470	mg/L	0.010	94	70	130	4.2	20	
Lead		0.540	mg/L	0.050	108	70	130	4	20	
Molybdenum		0.564	mg/L	0.10	112	70	130	4	20	
Nickel		0.521	mg/L	0.050	96	70	130	6.7	20	
Uranium		0.577	mg/L	0.00030	115	70	130	4.4	20	
Vanadium		0.550	mg/L	0.10	106	70	130	3.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R125241
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091016B				10/16/09 14:23
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091016B				10/16/09 14:25
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	**105**	90	110			
Sample ID: C09100574-001HMS		Sample Matrix Spike				Run: TECHNICON_091016B				10/16/09 16:35
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	**103**	90	110			
Sample ID: C09100574-001HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016B				10/16/09 16:38
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	**102**	90	110	**1**	10	

Qualifiers:

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QA/QC Summary Report

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Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125167
Sample ID: 14-Oct-09_LCS_2	9	Laboratory Control Sample				Run: 5975VOC1_091014A				10/14/09 11:24
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		9.56	ug/L	1.0	96	70	130			
Chlorodibromomethane		9.96	ug/L	1.0	100	70	130			
Chloroform		10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total		39.4	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: 14-Oct-09_MBLK_6	9	Method Blank				Run: 5975VOC1_091014A				10/14/09 13:46
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	102	80	120			
Surr: p-Bromofluorobenzene				1.0	96	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100425-003IMS	9	Sample Matrix Spike				Run: 5975VOC1_091014A				10/14/09 18:57
Bromodichloromethane		205	ug/L	20	102	70	130			
Bromoform		198	ug/L	20	99	70	130			
Chlorodibromomethane		205	ug/L	20	102	70	130			
Chloroform		270	ug/L	20	115	70	130			
Trihalomethanes, Total		878	ug/L	20	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	109	80	120			
Surr: p-Bromofluorobenzene				20	110	80	120			
Surr: Toluene-d8				20	97	80	120			
Sample ID: C09100425-003IMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091014A				10/14/09 19:32
Bromodichloromethane		206	ug/L	20	103	70	130	0.8	20	
Bromoform		204	ug/L	20	102	70	130	2.8	20	
Chlorodibromomethane		208	ug/L	20	104	70	130	1.6	20	
Chloroform		272	ug/L	20	116	70	130	0.9	20	
Trihalomethanes, Total		890	ug/L	20	106	70	130	1.4	20	
Surr: 1,2-Dichlorobenzene-d4				20	98	80	120			
Surr: Dibromofluoromethane				20	106	80	120			
Surr: p-Bromofluorobenzene				20	108	80	120			
Surr: Toluene-d8				20	96	80	120			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0272
Sample ID: MB-GA-0272	3	Method Blank				Run: G5000W_091014A				10/19/09 15:40
Gross Alpha minus Rn & U		0.6	pCi/L							
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0272		Laboratory Control Sample				Run: G5000W_091014A				10/19/09 15:40
Gross Alpha minus Rn & U		32.2	pCi/L		120	70	130			
Sample ID: C09090996-001JMS		Sample Matrix Spike				Run: G5000W_091014A				10/19/09 15:40
Gross Alpha minus Rn & U		29.8	pCi/L		104	70	130			
Sample ID: C09090996-001JMSD		Sample Matrix Spike Duplicate				Run: G5000W_091014A				10/19/09 15:40
Gross Alpha minus Rn & U		28.3	pCi/L		99	70	130	5	21.5	
Method: E903.0										Batch: RA226-4116
Sample ID: C09100837-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091023C				11/05/09 14:22
Radium 226		15	pCi/L		91	70	130			
Sample ID: C09100837-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091023C				11/05/09 14:22
Radium 226		16	pCi/L		98	70	130	6.7	25.3	
Sample ID: MB-RA226-4116	3	Method Blank				Run: BERTHOLD 770-2_091023C				11/06/09 00:14
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4116		Laboratory Control Sample				Run: BERTHOLD 770-2_091023C				11/06/09 00:14
Radium 226		8.1	pCi/L		104	70	130			
Method: E903.0										Batch: RA226-4120
Sample ID: C09100432-001GMS		Sample Matrix Spike				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		14.6	pCi/L		90	70	130			
Sample ID: C09100432-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		14.6	pCi/L		91	70	130	0	23.2	
Sample ID: MB-RA226-4120	3	Method Blank				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4120		Laboratory Control Sample				Run: TENNELEC-3_091026D				11/05/09 18:00
Radium 226		8.1	pCi/L		101	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-0969
Sample ID: LCS-RA-TH-ISO-0969		Laboratory Control Sample				Run: EGG-ORTEC_091023B				10/30/09 17:12
Thorium 230		5.58	pCi/L		103	70	130			
Sample ID: C09100635-006FMS		Sample Matrix Spike				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.7	pCi/L		85	70	130			
Sample ID: C09100635-006FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		15.4	pCi/L		85	70	130	2.3	39.6	
Sample ID: MB-RA-TH-ISO-0969	3	Method Blank				Run: EGG-ORTEC_091023B				10/31/09 17:13
Thorium 230		-0.02	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E909.0M										Batch: R126439
Sample ID: C09050246-004CMS		Sample Matrix Spike				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		99	pCi/L		87	70	130			
Sample ID: C09050246-004CMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		100	pCi/L		89	70	130	2.4	30	
Sample ID: MB-R126439	3	Method Blank				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		-0.3	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R126439		Laboratory Control Sample				Run: BECKMAN 6100TA_091103A				11/03/09 05:30
Lead 210		93	pCi/L		82	70	130			
Method: RA-05										Batch: RA228-2932
Sample ID: LCS-228-RA226-4116		Laboratory Control Sample				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		9.64	pCi/L		111	70	130			
Sample ID: MB-RA226-4116	3	Method Blank				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100837-003DMS		Sample Matrix Spike				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		18.3	pCi/L		106	70	130			
Sample ID: C09100837-003DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091023E				10/30/09 11:20
Radium 228		16.2	pCi/L		93	70	130	12	33.5	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/20/09
Work Order: C09100423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2933
Sample ID: LCS-228-RA226-4120		Laboratory Control Sample				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		8.5	pCi/L		104	70	130			
Sample ID: MB-RA226-4120	3	Method Blank				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		-0.03	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100432-001GMS		Sample Matrix Spike				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		16	pCi/L		99	70	130			
Sample ID: C09100432-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091026B				10/30/09 13:41
Radium 228		15	pCi/L		89	70	130	9.8	37.6	

Qualifiers:

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ANALYTICAL SUMMARY REPORT

November 30, 2009

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C09100637 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corp on 10/15/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100637-001	517	10/12/09 12:30	10/15/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total 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 Sulfate E624 Purgeable Organics
C09100637-002	708	10/12/09 13:20	10/15/09	Aqueous	Same As Above
C09100637-003	711	10/12/09 14:12	10/15/09	Aqueous	Same As Above
C09100637-004	711 Duplicate	10/12/09 14:55	10/15/09	Aqueous	Same As Above
C09100637-005	EPA-13	10/13/09 08:54	10/15/09	Aqueous	Same As Above
C09100637-006	504-B	10/13/09 09:40	10/15/09	Aqueous	Same As Above
C09100637-007	719	10/13/09 10:50	10/15/09	Aqueous	Same As Above
C09100637-008	420	10/13/09 11:30	10/15/09	Aqueous	Same As Above
C09100637-009	717	10/13/09 12:20	10/15/09	Aqueous	Same As Above
C09100637-010	NBL-2	10/13/09 13:15	10/15/09	Aqueous	Same As Above
C09100637-011	RW-A	10/13/09 13:50	10/15/09	Aqueous	Same As Above
C09100637-012	RW-11	10/13/09 14:10	10/15/09	Aqueous	Same As Above
C09100637-013	NBL-1	10/13/09 15:15	10/15/09	Aqueous	Same As Above
C09100637-014	PB-3	10/13/09 15:40	10/15/09	Aqueous	Same As Above
C09100637-015	PB-2	10/13/09 16:00	10/15/09	Aqueous	Same As Above
C09100637-016	Field Blank	10/13/09 17:10	10/15/09	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C09100637

Date: 30-Nov-09

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 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 Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R125312
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091019A				10/19/09 11:17
Alkalinity, Total as CaCO3		0.8	mg/L	0.2						
Bicarbonate as HCO3		ND	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091019A				10/19/09 11:28
Alkalinity, Total as CaCO3		202	mg/L	5.0	100	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091019A				10/19/09 11:36
Alkalinity, Total as CaCO3		53.9	mg/L	5.0	106	90	110			
Sample ID: C09100635-005AMS		Sample Matrix Spike				Run: MANTECH_091019A				10/19/09 21:08
Alkalinity, Total as CaCO3		403	mg/L	5.0	105	80	120			
Sample ID: C09100635-005AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091019A				10/19/09 21:16
Alkalinity, Total as CaCO3		407	mg/L	5.0	108	80	120	0.9	20	
Method: A2320 B										Batch: R125365
Sample ID: MBLK	2	Method Blank				Run: MANTECH_091020A				10/20/09 11:37
Alkalinity, Total as CaCO3		4	mg/L	0.2						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_091020A				10/20/09 11:52
Alkalinity, Total as CaCO3		201	mg/L	5.0	99	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091020A				10/20/09 12:00
Alkalinity, Total as CaCO3		52.9	mg/L	5.0	99	90	110			
Sample ID: C09100637-008AMS		Sample Matrix Spike				Run: MANTECH_091020A				10/20/09 12:38
Alkalinity, Total as CaCO3		511	mg/L	5.0	103	80	120			
Sample ID: C09100637-008AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091020A				10/20/09 12:45
Alkalinity, Total as CaCO3		511	mg/L	5.0	103	80	120	0.1	20	
Method: A2540 C										Batch: 091019_1_SLDS-TDS-W
Sample ID: MBLK1_091019		Method Blank				Run: BAL-1_091019A				10/19/09 09:11
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091019		Laboratory Control Sample				Run: BAL-1_091019A				10/19/09 09:12
Solids, Total Dissolved TDS @ 180 C		983	mg/L	10	98	90	110			
Sample ID: C09100679-001AMS		Sample Matrix Spike				Run: BAL-1_091019A				10/19/09 09:19
Solids, Total Dissolved TDS @ 180 C		2950	mg/L	10	105	90	110			
Sample ID: C09100679-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091019A				10/19/09 09:19
Solids, Total Dissolved TDS @ 180 C		2860	mg/L	10	101	90	110	2.8	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 091022_2_SLDS-TDS-W	
Sample ID: MBLK1_091022		Method Blank				Run: BAL-1_091022C			10/22/09 11:06	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091022		Laboratory Control Sample				Run: BAL-1_091022C			10/22/09 11:06	
Solids, Total Dissolved TDS @ 180 C		979	mg/L	10	98	90	110			
Sample ID: C09100637-011BMS		Sample Matrix Spike				Run: BAL-1_091022C			10/22/09 11:14	
Solids, Total Dissolved TDS @ 180 C		6000	mg/L	10	102	90	110			
Sample ID: C09100637-011BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091022C			10/22/09 11:14	
Solids, Total Dissolved TDS @ 180 C		6000	mg/L	10	102	90	110	0	10	
Method: A2540 C									Batch: 091022_3_SLDS-TDS-W	
Sample ID: MBLK1_091022		Method Blank				Run: BAL-1_091022B			10/22/09 13:33	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS1_091022		Laboratory Control Sample				Run: BAL-1_091022B			10/22/09 13:33	
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	102	90	110			
Sample ID: C09100638-002AMS		Sample Matrix Spike				Run: BAL-1_091022B			10/22/09 13:35	
Solids, Total Dissolved TDS @ 180 C		5910	mg/L	10	101	90	110			
Sample ID: C09100638-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091022B			10/22/09 13:36	
Solids, Total Dissolved TDS @ 180 C		5900	mg/L	10	100	90	110	0.1	10	
Method: A3114 B									Batch: SE3114-091027C	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_091027C			10/27/09 14:15	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0mg/L-C 102		Laboratory Control Sample				Run: CVAA-C202_091027C			10/27/09 14:17	
Selenium-IV		0.0497	mg/L	0.0010	99	90	110			
Sample ID: C09100637-004DMS		Sample Matrix Spike				Run: CVAA-C202_091027C			10/27/09 14:48	
Selenium-IV		0.0463	mg/L	0.0010	93	85	115			
Sample ID: C09100637-004DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091027C			10/27/09 14:50	
Selenium-IV		0.0471	mg/L	0.0010	94	85	115	1.6	10	
Sample ID: C09100637-014DMS		Sample Matrix Spike				Run: CVAA-C202_091027C			10/27/09 15:24	
Selenium-IV		0.0463	mg/L	0.0010	93	85	115			
Sample ID: C09100637-014DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_091027C			10/27/09 15:26	
Selenium-IV		0.0477	mg/L	0.0010	95	85	115	3.2	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 091104A-CL-TTR-W	
Sample ID: MBLK9-091104A		Method Blank				Run: TITRATION_091104A			11/04/09 14:50	
Chloride		ND	mg/L	0.4						
Sample ID: C0911008-001AMS		Sample Matrix Spike				Run: TITRATION_091104A			11/04/09 15:34	
Chloride		572	mg/L	1.0	104	90	110			
Sample ID: C0911008-001AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091104A			11/04/09 15:35	
Chloride		205	mg/L	1.0		90	110	0	10	S
Sample ID: LCS35-091104A		Laboratory Control Sample				Run: TITRATION_091104A			11/04/09 15:51	
Chloride		3670	mg/L	1.0	104	90	110			
Method: A4500-Cl B									Batch: 091125A-CL-TTR-W	
Sample ID: MBLK9-091125A		Method Blank				Run: TITRATION_091125A			11/25/09 13:19	
Chloride		ND	mg/L	0.4						
Sample ID: C09100637-004AMS		Sample Matrix Spike				Run: TITRATION_091125A			11/25/09 13:45	
Chloride		51.9	mg/L	1.0	101	90	110			
Sample ID: C09100637-004AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091125A			11/25/09 13:55	
Chloride		51.5	mg/L	1.0	100	90	110	0.7	10	
Sample ID: LCS35-091125A		Laboratory Control Sample				Run: TITRATION_091125A			11/25/09 14:04	
Chloride		3530	mg/L	1.0	100	90	110			
Method: A4500-Cl B									Batch: 100	
Sample ID: MBLK9-		Method Blank				Run: TITRATION_091019D			10/19/09 08:45	
Chloride		ND	mg/L	0.4						
Sample ID: LCS35-		Laboratory Control Sample				Run: TITRATION_091019D			10/19/09 10:52	
Chloride		3570	mg/L	1.0	101	90	110			
Sample ID: C09100637-011AMS		Sample Matrix Spike				Run: TITRATION_091019D			10/19/09 14:33	
Chloride		219	mg/L	1.0	98	90	110			
Sample ID: C09100637-011AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091019D			10/19/09 14:38	
Chloride		217	mg/L	1.0	97	90	110	0.8	10	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 11/25/09-CL-TTR-W	
Sample ID: MBLK9-11/25/09		Method Blank				Run: TITRATION_091125C			11/25/09 16:18	
Chloride		ND	mg/L	0.4						
Sample ID: C09100637-015AMS		Sample Matrix Spike				Run: TITRATION_091125C			11/25/09 17:14	
Chloride		98.9	mg/L	1.0	100	90	110			
Sample ID: C09100637-015AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_091125C			11/25/09 17:16	
Chloride		97.5	mg/L	1.0	98	90	110	1.4	10	
Sample ID: LCS35-11/25/09		Laboratory Control Sample				Run: TITRATION_091125C			11/25/09 17:18	
Chloride		3500	mg/L	1.0	99	90	110			
Method: A4500-H B									Analytical Run: ORION555A-2_091021A	
Sample ID: ICV1_091021_1		Initial Calibration Verification Standard							10/21/09 11:22	
pH		6.86	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 091021_1__555A-2	
Sample ID: C09100637-002ADUP		Sample Duplicate				Run: ORION555A-2_091021A			10/21/09 11:49	
pH		3.75	s.u.	0.010				0.3	10	
Sample ID: C09100637-012ADUP		Sample Duplicate				Run: ORION555A-2_091021A			10/21/09 12:16	
pH		7.46	s.u.	0.010				0.1	10	
Method: A4500-NH3 G									Batch: R125214	
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091016A			10/16/09 09:17	
Nitrogen, Ammonia as N		0.04	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091016A			10/16/09 09:19	
Nitrogen, Ammonia as N		19.3	mg/L	0.20	96	80	120			
Sample ID: C09100635-004HMS		Sample Matrix Spike				Run: TECHNICON_091016A			10/16/09 12:12	
Nitrogen, Ammonia as N		2.71	mg/L	0.050	115	80	120			
Sample ID: C09100635-004HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016A			10/16/09 12:14	
Nitrogen, Ammonia as N		2.73	mg/L	0.050	116	80	120	0.7	20	
Sample ID: C09100637-008HMS		Sample Matrix Spike				Run: TECHNICON_091016A			10/16/09 12:42	
Nitrogen, Ammonia as N		2.32	mg/L	0.050	111	80	120			
Sample ID: C09100637-008HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091016A			10/16/09 12:44	
Nitrogen, Ammonia as N		2.27	mg/L	0.050	108	80	120	2.2	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R125717
Sample ID: MBLK-1	Method Blank					Run: TECHNICON_091028A				10/28/09 12:35
Nitrogen, Ammonia as N		0.04	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample					Run: TECHNICON_091028A				10/28/09 12:39
Nitrogen, Ammonia as N		18.1	mg/L	0.20	91	80	120			
Sample ID: C09100637-012HMS	Sample Matrix Spike					Run: TECHNICON_091028A				10/28/09 12:51
Nitrogen, Ammonia as N		5.11	mg/L	0.050	107	80	120			
Sample ID: C09100637-012HMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_091028A				10/28/09 12:53
Nitrogen, Ammonia as N		5.20	mg/L	0.050	111	80	120	1.7	20	
Sample ID: C09100677-003DMS	Sample Matrix Spike					Run: TECHNICON_091028A				10/28/09 13:54
Nitrogen, Ammonia as N		2.11	mg/L	0.050	102	80	120			
Sample ID: C09100677-003DMSD	Sample Matrix Spike Duplicate					Run: TECHNICON_091028A				10/28/09 13:56
Nitrogen, Ammonia as N		2.01	mg/L	0.050	97	80	120	4.9	20	
Method: A4500-SO4 E										Batch: 091016_1_SO4-TURB-W
Sample ID: BLNKB-1_091016	Method Blank					Run: TURB-2_091016A				10/16/09 10:00
Sulfate		20	mg/L	0.6						
Sample ID: LCS-1_091016	Laboratory Control Sample					Run: TURB-2_091016A				10/16/09 10:03
Sulfate		4870	mg/L	59	101	90	110			
Sample ID: C09100637-006AMS	Sample Matrix Spike					Run: TURB-2_091016A				10/16/09 14:46
Sulfate		9210	mg/L	150	124	90	110			S
Sample ID: C09100637-006AMSD	Sample Matrix Spike Duplicate					Run: TURB-2_091016A				10/16/09 14:47
Sulfate		9230	mg/L	150	125	90	110	0.3	10	S
Sample ID: C09100637-012AMS	Sample Matrix Spike					Run: TURB-2_091016A				10/16/09 15:28
Sulfate		4470	mg/L	59	101	90	110			
Sample ID: C09100637-012AMSD	Sample Matrix Spike Duplicate					Run: TURB-2_091016A				10/16/09 15:30
Sulfate		4580	mg/L	59	107	90	110	2.3	10	
Method: A4500-SO4 E										Batch: 091028_1_SO4-TURB-W
Sample ID: LCS-1_091028	Laboratory Control Sample					Run: TURB-2_090828A				10/28/09 11:30
Sulfate		4820	mg/L	59	100	90	110			
Sample ID: MBLK-1_091028	Method Blank					Run: TURB-2_090828A				10/28/09 11:31
Sulfate		ND	mg/L	0.6						
Sample ID: C09100623-009AMS	Sample Matrix Spike					Run: TURB-2_090828A				10/28/09 11:32
Sulfate		4270	mg/L	59	103	90	110			
Sample ID: C09100623-009AMSD	Sample Matrix Spike Duplicate					Run: TURB-2_090828A				10/28/09 11:33
Sulfate		4220	mg/L	59	100	90	110	1.3	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 091105_1_SO4-TURB-W	
Sample ID: LCS-1_091105		Laboratory Control Sample				Run: TURB-2_091105A			11/05/09 10:07	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_091105		Method Blank				Run: TURB-2_091105A			11/05/09 10:08	
Sulfate		ND	mg/L	0.6						
Sample ID: C09100902-008AMS		Sample Matrix Spike				Run: TURB-2_091105A			11/05/09 10:33	
Sulfate		322	mg/L	5.9	105	90	110			
Sample ID: C09100902-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_091105A			11/05/09 10:34	
Sulfate		317	mg/L	5.9	103	90	110	1.5	10	
Method: E1632AM									Batch: H_R57743	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H57743			10/29/09 12:43	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS091029-LCS		Laboratory Control Sample				Run: SUB-H57743			10/29/09 12:52	
Arsenic-III		45.5	ug/L	5.0	91	90	110			
Sample ID: H09100361-002A MS		Sample Matrix Spike				Run: SUB-H57743			10/29/09 13:19	
Arsenic-III		51.9	ug/L	5.0	92	80	120			
Sample ID: H09100361-002A MSD		Sample Matrix Spike Duplicate				Run: SUB-H57743			10/29/09 13:27	
Arsenic-III		50.0	ug/L	5.0	88	80	120	3.6	20	
Sample ID: C09100637-013E		Sample Matrix Spike				Run: SUB-H57743			10/29/09 17:21	
Arsenic-III		37.8	ug/L	5.0	76	80	120			S
Sample ID: C09100637-013E		Sample Matrix Spike Duplicate				Run: SUB-H57743			10/29/09 17:29	
Arsenic-III		40.3	ug/L	5.0	81	80	120	6.5	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125541
Sample ID: MB-091023A	4	Method Blank				Run: ICP2-C_091023A				10/23/09 11:49
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091023A	4	Laboratory Fortified Blank				Run: ICP2-C_091023A				10/23/09 11:53
Calcium		48.0	mg/L	0.50	96	85	115			
Magnesium		48.9	mg/L	0.50	98	85	115			
Potassium		45.6	mg/L	0.50	91	85	115			
Sodium		47.2	mg/L	0.50	94	85	115			
Sample ID: C09100637-004CMS2	4	Sample Matrix Spike				Run: ICP2-C_091023A				10/23/09 18:25
Calcium		676	mg/L	1.3	84	70	130			
Magnesium		681	mg/L	1.0	93	70	130			
Potassium		247	mg/L	1.0	93	70	130			
Sodium		347	mg/L	1.2	99	70	130			
Sample ID: C09100637-004CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091023A				10/23/09 18:29
Calcium		681	mg/L	1.3	85	70	130	0.7	20	
Magnesium		682	mg/L	1.0	93	70	130	0.1	20	
Potassium		243	mg/L	1.0	91	70	130	1.3	20	
Sodium		345	mg/L	1.2	98	70	130	0.6	20	
Sample ID: C09100637-014CMS2	4	Sample Matrix Spike				Run: ICP2-C_091023A				10/23/09 20:14
Calcium		817	mg/L	1.3	90	70	130			
Magnesium		492	mg/L	1.0	100	70	130			
Potassium		240	mg/L	1.0	90	70	130			
Sodium		379	mg/L	1.2	97	70	130			
Sample ID: C09100637-014CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091023A				10/23/09 20:19
Calcium		845	mg/L	1.3	100	70	130	3.3	20	
Magnesium		493	mg/L	1.0	101	70	130	0.3	20	
Potassium		241	mg/L	1.0	90	70	130	0.1	20	
Sodium		384	mg/L	1.2	98	70	130	1.2	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R125965
Sample ID: MB-091103A	4	Method Blank				Run: ICP2-C_091103A				11/03/09 09:54
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091103A	4	Laboratory Fortified Blank				Run: ICP2-C_091103A				11/03/09 09:58
Calcium		47.0	mg/L	0.50	94	85	115			
Magnesium		48.5	mg/L	0.50	97	85	115			
Potassium		45.3	mg/L	0.50	91	85	115			
Sodium		46.1	mg/L	0.50	92	85	115			
Sample ID: C09100637-003CMS2	4	Sample Matrix Spike				Run: ICP2-C_091103A				11/03/09 10:56
Calcium		979	mg/L	2.5	98	70	130			
Magnesium		962	mg/L	1.0	96	70	130			
Potassium		477	mg/L	1.0	91	70	130			
Sodium		584	mg/L	2.3	95	70	130			
Sample ID: C09100637-003CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_091103A				11/03/09 11:00
Calcium		990	mg/L	2.5	100	70	130	1.1	20	
Magnesium		967	mg/L	1.0	97	70	130	0.5	20	
Potassium		462	mg/L	1.0	88	70	130	3.2	20	
Sodium		589	mg/L	2.3	96	70	130	0.7	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R125320	
Sample ID: LRB	10	Method Blank				Run: ICPMS2-C_091019A			10/19/09 12:37	
Aluminum		0.004	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS2-C_091019A			10/19/09 12:44	
Aluminum		0.0508	mg/L	0.0022	94	85	115			
Beryllium		0.0504	mg/L	0.0010	101	85	115			
Cadmium		0.0502	mg/L	0.0010	100	85	115			
Cobalt		0.0495	mg/L	0.0010	99	85	115			
Lead		0.0502	mg/L	0.0010	100	85	115			
Manganese		0.0493	mg/L	0.0010	99	85	115			
Molybdenum		0.0503	mg/L	0.0010	101	85	115			
Nickel		0.0504	mg/L	0.0010	101	85	115			
Uranium		0.0487	mg/L	0.00030	97	85	115			
Vanadium		0.0490	mg/L	0.0010	98	85	115			
Sample ID: C09100637-004DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_091019A			10/19/09 16:08	
Aluminum		0.504	mg/L	0.10	46	70	130			S
Beryllium		0.253	mg/L	0.010	100	70	130			
Cadmium		0.247	mg/L	0.010	99	70	130			
Cobalt		0.575	mg/L	0.010	102	70	130			
Lead		0.254	mg/L	0.050	102	70	130			
Manganese		5.90	mg/L	0.010		70	130			A
Molybdenum		0.438	mg/L	0.10	103	70	130			
Nickel		0.529	mg/L	0.050	95	70	130			
Uranium		0.270	mg/L	0.00030	102	70	130			
Vanadium		0.246	mg/L	0.10	99	70	130			
Sample ID: C09100637-004DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091019A			10/19/09 16:14	
Aluminum		0.476	mg/L	0.10	35	70	130	5.8	20	S
Beryllium		0.253	mg/L	0.010	100	70	130	0.4	20	
Cadmium		0.251	mg/L	0.010	100	70	130	1.4	20	
Cobalt		0.586	mg/L	0.010	106	70	130	1.9	20	
Lead		0.254	mg/L	0.050	101	70	130	0.3	20	
Manganese		5.94	mg/L	0.010		70	130	0.6	20	A
Molybdenum		0.446	mg/L	0.10	106	70	130	1.7	20	
Nickel		0.536	mg/L	0.050	98	70	130	1.2	20	

Qualifiers:

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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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R125320	
Sample ID: C09100637-004DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091019A			10/19/09 16:14	
Uranium		0.271	mg/L	0.00030	102	70	130	0.4	20	
Vanadium		0.250	mg/L	0.10	100	70	130	1.5	20	
Sample ID: C09100637-014DMS4	10	Sample Matrix Spike				Run: ICPMS2-C_091019A			10/19/09 21:05	
Aluminum		2.18	mg/L	0.10		70	130			A
Beryllium		0.229	mg/L	0.010	91	70	130			
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.484	mg/L	0.010	100	70	130			
Lead		0.263	mg/L	0.050	101	70	130			
Manganese		6.02	mg/L	0.010		70	130			A
Molybdenum		0.447	mg/L	0.10	103	70	130			
Nickel		0.494	mg/L	0.050	94	70	130			
Uranium		0.385	mg/L	0.00030	109	70	130			
Vanadium		0.242	mg/L	0.10	97	70	130			
Sample ID: C09100637-014DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS2-C_091019A			10/19/09 21:11	
Aluminum		2.17	mg/L	0.10		70	130	0.4	20	A
Beryllium		0.230	mg/L	0.010	91	70	130	0.2	20	
Cadmium		0.244	mg/L	0.010	98	70	130	0.7	20	
Cobalt		0.483	mg/L	0.010	99	70	130	0.2	20	
Lead		0.263	mg/L	0.050	101	70	130	0.1	20	
Manganese		5.93	mg/L	0.010		70	130	1.4	20	A
Molybdenum		0.445	mg/L	0.10	102	70	130	0.5	20	
Nickel		0.496	mg/L	0.050	94	70	130	0.3	20	
Uranium		0.385	mg/L	0.00030	109	70	130	0.1	20	
Vanadium		0.240	mg/L	0.10	96	70	130	1	20	
Method: E200.8									Batch: R125432	
Sample ID: LRB	2	Method Blank				Run: ICPMS4-C_091021A			10/21/09 12:40	
Aluminum		ND	mg/L	0.0004						
Manganese		ND	mg/L	3E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS4-C_091021A			10/21/09 12:47	
Aluminum		0.0562	mg/L	0.0010	112	85	115			
Manganese		0.0548	mg/L	0.0010	110	85	115			
Sample ID: C09100595-001FMS4	2	Sample Matrix Spike				Run: ICPMS4-C_091021A			10/21/09 20:46	
Aluminum		0.0616	mg/L	0.0010	103	70	130			
Manganese		0.119	mg/L	0.010	100	70	130			
Sample ID: C09100595-001FMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS4-C_091021A			10/21/09 20:51	
Aluminum		0.0634	mg/L	0.0010	107	70	130	2.9	20	
Manganese		0.120	mg/L	0.010	101	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

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R125355
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091020A				10/20/09 12:51
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091020A				10/20/09 12:54
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Sample ID: C09100637-004HMS		Sample Matrix Spike				Run: TECHNICON_091020A				10/20/09 13:46
Nitrogen, Nitrate+Nitrite as N		2.18	mg/L	0.10	107	90	110			
Sample ID: C09100637-004HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091020A				10/20/09 13:49
Nitrogen, Nitrate+Nitrite as N		2.19	mg/L	0.10	107	90	110	0.5	10	
Method: E353.2										Batch: R125401
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_091021A				10/21/09 13:27
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_091021A				10/21/09 13:29
Nitrogen, Nitrate+Nitrite as N		2.68	mg/L	0.10	107	90	110			
Sample ID: C09100637-008HMS		Sample Matrix Spike				Run: TECHNICON_091021A				10/21/09 13:44
Nitrogen, Nitrate+Nitrite as N		2.26	mg/L	0.10	113	90	110			S
Sample ID: C09100637-008HMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_091021A				10/21/09 13:47
Nitrogen, Nitrate+Nitrite as N		2.19	mg/L	0.10	109	90	110	3.1	10	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125330
Sample ID: 19-Oct-09_MBLK_7	9	Method Blank				Run: 5975VOC1_091019B				10/19/09 13:11
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	103	80	120			
Surr: p-Bromofluorobenzene				1.0	94	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: C09100637-013IMS	9	Sample Matrix Spike				Run: 5975VOC1_091019B				10/19/09 18:45
Bromodichloromethane		96.8	ug/L	10	97	70	130			
Bromoform		109	ug/L	10	109	70	130			
Chlorodibromomethane		98.4	ug/L	10	98	70	130			
Chloroform		113	ug/L	10	113	70	130			
Trihalomethanes, Total		417	ug/L	10	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	108	80	120			
Surr: Dibromofluoromethane				10	107	80	120			
Surr: p-Bromofluorobenzene				10	106	80	120			
Surr: Toluene-d8				10	90	80	120			
Sample ID: C09100637-013IMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_091019B				10/19/09 19:21
Bromodichloromethane		100	ug/L	10	100	70	130	3.7	20	
Bromoform		112	ug/L	10	112	70	130	2.5	20	
Chlorodibromomethane		100	ug/L	10	100	70	130	2	20	
Chloroform		117	ug/L	10	117	70	130	3.8	20	
Trihalomethanes, Total		430	ug/L	10	107	70	130	3	20	
Surr: 1,2-Dichlorobenzene-d4				10	108	80	120			
Surr: Dibromofluoromethane				10	110	80	120			
Surr: p-Bromofluorobenzene				10	108	80	120			
Surr: Toluene-d8				10	91	80	120			
Sample ID: 19-Oct-09_LCS_4	9	Laboratory Control Sample				Run: 5975VOC1_091019B				10/19/09 11:24
Bromodichloromethane		9.32	ug/L	1.0	93	70	130			
Bromoform		9.44	ug/L	1.0	94	70	130			
Chlorodibromomethane		9.64	ug/L	1.0	96	70	130			
Chloroform		10.8	ug/L	1.0	108	70	130			
Trihalomethanes, Total		39.2	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120			
Surr: Dibromofluoromethane				1.0	108	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	98	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R125549
Sample ID: 102109_LCS_3	9	Laboratory Control Sample				Run: SATURNCA_091021C				10/21/09 12:48
Bromodichloromethane		10.1	ug/L	1.0	101	70	130			
Bromoform		10.5	ug/L	1.0	105	70	130			
Chlorodibromomethane		8.92	ug/L	1.0	89	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	108	80	120			
Surr: Dibromofluoromethane				1.0	122	80	120			S
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	109	80	120			
Sample ID: 102109_MBLK_6	9	Method Blank				Run: SATURNCA_091021C				10/21/09 14:55
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	115	80	120			
Surr: p-Bromofluorobenzene				1.0	98	80	120			
Surr: Toluene-d8				1.0	110	80	120			
Sample ID: C09100637-014IMS	9	Sample Matrix Spike				Run: SATURNCA_091021C				10/22/09 06:13
Bromodichloromethane		111	ug/L	10	111	70	130			
Bromoform		110	ug/L	10	110	70	130			
Chlorodibromomethane		117	ug/L	10	117	70	130			
Chloroform		99.2	ug/L	10	99	70	130			
Trihalomethanes, Total		437	ug/L	10	109	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	102	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	91	80	120			
Surr: Toluene-d8				10	110	80	120			
Sample ID: C09100637-014IMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_091021C				10/22/09 06:52
Bromodichloromethane		117	ug/L	10	117	70	130	5.6	20	
Bromoform		118	ug/L	10	118	70	130	7	20	
Chlorodibromomethane		122	ug/L	10	122	70	130	4	20	
Chloroform		98.0	ug/L	10	98	70	130	1.2	20	
Trihalomethanes, Total		455	ug/L	10	114	70	130	4	20	
Surr: 1,2-Dichlorobenzene-d4				10	109	80	120			
Surr: Dibromofluoromethane				10	104	80	120			
Surr: p-Bromofluorobenzene				10	94	80	120			
Surr: Toluene-d8				10	113	80	120			

Qualifiers:

RL - Analyte reporting limit.
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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0276
Sample ID: MB-GA-0276	3	Method Blank				Run: BERTHOLD 770-2_091103A				11/05/09 11:07
Gross Alpha minus Rn & U		-0.07	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.5	pCi/L							
Gross Alpha minus Rn & U MDC		0.9	pCi/L							
Sample ID: LCS-GA-0276		Laboratory Control Sample				Run: BERTHOLD 770-2_091103A				11/05/09 11:07
Gross Alpha minus Rn & U		26.4	pCi/L		100	70	130			
Sample ID: C09100637-005FMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091103A				11/05/09 12:41
Gross Alpha minus Rn & U		34.7	pCi/L		104	70	130			
Sample ID: C09100637-005FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091103A				11/05/09 12:41
Gross Alpha minus Rn & U		33.0	pCi/L		97	70	130	5.1	25.3	
Method: E900.1										Batch: GA-0277
Sample ID: MB-GA-0277	3	Method Blank				Run: BERTHOLD 770-2_091104A				11/06/09 15:04
Gross Alpha minus Rn & U		0.10	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.6	pCi/L							
Gross Alpha minus Rn & U MDC		1.0	pCi/L							
Sample ID: LCS-GA-0277		Laboratory Control Sample				Run: BERTHOLD 770-2_091104A				11/06/09 15:04
Gross Alpha minus Rn & U		26.1	pCi/L		99	70	130			
Sample ID: C09100637-009FMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091104A				11/06/09 15:04
Gross Alpha minus Rn & U		60.0	pCi/L		92	70	130			
Sample ID: C09100637-009FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091104A				11/06/09 15:04
Gross Alpha minus Rn & U		57.5	pCi/L		83	70	130	4.3	21.2	
Method: E903.0										Batch: RA226-4123
Sample ID: C09100633-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091027B				11/07/09 16:29
Radium 226		19	pCi/L		106	70	130			
Sample ID: C09100633-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091027B				11/07/09 16:29
Radium 226		19	pCi/L		103	70	130	2.4	23.7	
Sample ID: MB-RA226-4123	3	Method Blank				Run: BERTHOLD 770-2_091027B				11/07/09 18:32
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4123		Laboratory Control Sample				Run: BERTHOLD 770-2_091027B				11/07/09 18:32
Radium 226		8.9	pCi/L		114	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4130
Sample ID: C09100626-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_091028A				11/09/09 13:01
Radium 226		15	pCi/L		98	70	130			
Sample ID: C09100626-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_091028A				11/09/09 13:01
Radium 226		15	pCi/L		98	70	130	0.4	25.2	
Sample ID: MB-RA226-4130	3	Method Blank				Run: BERTHOLD 770-2_091028A				11/09/09 14:34
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4130		Laboratory Control Sample				Run: BERTHOLD 770-2_091028A				11/09/09 14:34
Radium 226		8.3	pCi/L		108	70	130			
Method: E903.0										Batch: RA226-4134
Sample ID: C09100795-001AMS		Sample Matrix Spike				Run: BERTHOLD 770-1_091028B				11/10/09 16:28
Radium 226		16.0	pCi/L		98	70	130			
Sample ID: C09100795-001AMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_091028B				11/10/09 16:28
Radium 226		17.7	pCi/L		108	70	130	9.9	24.5	
Sample ID: MB-RA226-4134	3	Method Blank				Run: BERTHOLD 770-1_091028B				11/10/09 22:11
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4134		Laboratory Control Sample				Run: BERTHOLD 770-1_091028B				11/10/09 22:11
Radium 226		8.6	pCi/L		112	70	130			
Method: E903.0										Batch: RA226-4135
Sample ID: C09100795-005AMS		Sample Matrix Spike				Run: BERTHOLD 770-1_091028A				11/10/09 23:52
Radium 226		16.2	pCi/L		102	70	130			
Sample ID: C09100795-005AMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_091028A				11/10/09 23:52
Radium 226		14.6	pCi/L		92	70	130	11	24.6	
Sample ID: MB-RA226-4135	3	Method Blank				Run: BERTHOLD 770-1_091028A				11/11/09 01:39
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4135		Laboratory Control Sample				Run: BERTHOLD 770-1_091028A				11/11/09 01:39
Radium 226		8.2	pCi/L		107	70	130			

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QA/QC Summary Report

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Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4207
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: TENNELEC-3_091120A				11/25/09 09:02
Radium 226		8.0	pCi/L		97	70	130			
Sample ID: TAP WATER-MSMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091120A				11/25/09 09:02
Radium 226		7.1	pCi/L		85	70	130	13	23.9	
Sample ID: LCS-RA226-4207		Laboratory Control Sample				Run: TENNELEC-3_091120A				11/25/09 09:02
Radium 226		7.5	pCi/L		93	70	130			
Sample ID: MB-RA226-4207	3	Method Blank				Run: TENNELEC-3_091120A				11/25/09 09:02
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Method: E907.0										Batch: RA-TH-ISO-0970
Sample ID: LCS-RA-TH-ISO-0970		Laboratory Control Sample				Run: EGG-ORTEC_091023C				10/31/09 17:16
Thorium 230		4.60	pCi/L		86	70	130			
Sample ID: C09100637-008FMS		Sample Matrix Spike				Run: EGG-ORTEC_091023C				11/01/09 17:30
Thorium 230		16.5	pCi/L		94	70	130			
Sample ID: C09100637-008FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091023C				11/01/09 17:30
Thorium 230		14.5	pCi/L		88	70	130	13	38	
Sample ID: MB-RA-TH-ISO-0970	3	Method Blank				Run: EGG-ORTEC_091023C				11/01/09 17:30
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.05	pCi/L							
Thorium 230 MDC		0.10	pCi/L							
Method: E907.0										Batch: RA-TH-ISO-0980
Sample ID: LCS-RA-TH-ISO-0980		Laboratory Control Sample				Run: EGG-ORTEC_091102B				11/04/09 13:15
Thorium 230		3.09	pCi/L		113	70	130			
Sample ID: C09100637-014FMS		Sample Matrix Spike				Run: EGG-ORTEC_091102B				11/04/09 13:15
Thorium 230		9.40	pCi/L		83	70	130			
Sample ID: C09100637-014FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091102B				11/04/09 13:15
Thorium 230		12.3	pCi/L		116	70	130	27	50.9	
Sample ID: MB-RA-TH-ISO-0980	3	Method Blank				Run: EGG-ORTEC_091102B				11/04/09 13:15
Thorium 230		-0.05	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

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QA/QC Summary Report

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Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1028
Sample ID: MB-RA-TH-ISO-0968	3	Method Blank				Run: EGG-ORTEC_091023D				11/23/09 20:14
Thorium 230		0.01	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.08	pCi/L							
Method: E909.0M										Batch: R126630
Sample ID: C09070063-005DMS		Sample Matrix Spike				Run: BECKMAN 6100TA_091111A				11/11/09 06:07
Lead 210		140	pCi/L		98	70	130			
Sample ID: C09070063-005DMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_091111A				11/11/09 06:07
Lead 210		170	pCi/L		120	70	130	20	30	
Sample ID: MB-R126630	3	Method Blank				Run: BECKMAN 6100TA_091111A				11/11/09 06:07
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		7	pCi/L							
Sample ID: LCS-R126630		Laboratory Control Sample				Run: BECKMAN 6100TA_091111A				11/11/09 06:07
Lead 210		110	pCi/L		102	70	130			
Method: RA-05										Batch: RA228-2935
Sample ID: LCS-228-RA226-4123		Laboratory Control Sample				Run: TENNELEC-3_091027A				11/02/09 11:55
Radium 228		8.23	pCi/L		104	70	130			
Sample ID: MB-RA226-4123	3	Method Blank				Run: TENNELEC-3_091027A				11/02/09 11:55
Radium 228		-0.4	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100633-002DMS		Sample Matrix Spike				Run: TENNELEC-3_091027A				11/02/09 11:55
Radium 228		22.7	pCi/L		115	70	130			
Sample ID: C09100633-002DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091027A				11/02/09 11:55
Radium 228		21.1	pCi/L		105	70	130	7.5	30.9	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2937
Sample ID: LCS-228-RA226-4130		Laboratory Control Sample				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		9.8	pCi/L		119	70	130			
Sample ID: MB-RA226-4130	3	Method Blank				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		-0.06	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09100626-002DMS		Sample Matrix Spike				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		19	pCi/L		108	70	130			
Sample ID: C09100626-002DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091028D				11/03/09 13:43
Radium 228		18	pCi/L		106	70	130	1.9	32.8	
Method: RA-05										Batch: RA228-2940
Sample ID: LCS-228-RA226-4134		Laboratory Control Sample				Run: TENNELEC-3_091028E				11/04/09 10:28
Radium 228		10	pCi/L		113	70	130			
Sample ID: MB-RA226-4134	3	Method Blank				Run: TENNELEC-3_091028E				11/04/09 10:28
Radium 228		0.7	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		0.9	pCi/L							
Sample ID: C09100795-002AMS		Sample Matrix Spike				Run: TENNELEC-3_091028E				11/04/09 10:28
Radium 228		23	pCi/L		106	70	130			
Sample ID: C09100795-002AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091028E				11/04/09 10:28
Radium 228		20	pCi/L		92	70	130	11	32.5	
Method: RA-05										Batch: RA228-2941
Sample ID: LCS-228-RA226-4135		Laboratory Control Sample				Run: TENNELEC-3_091028F				11/05/09 10:19
Radium 228		7.1	pCi/L		86	70	130			
Sample ID: MB-RA226-4135	3	Method Blank				Run: TENNELEC-3_091028F				11/05/09 10:19
Radium 228		-0.03	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		0.8	pCi/L							
Sample ID: C09100795-006AMS		Sample Matrix Spike				Run: TENNELEC-3_091028F				11/05/09 10:19
Radium 228		15	pCi/L		83	70	130			
Sample ID: C09100795-006AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091028F				11/05/09 10:19
Radium 228		17	pCi/L		96	70	130	14	35.3	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 11/30/09
Work Order: C09100637

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-2979
Sample ID: LCS-228-RA226-4205		Laboratory Control Sample				Run: TENNELEC-3_091119C				11/30/09 10:02
Radium 228		9.82	pCi/L		110	70	130			
Sample ID: MB-RA226-4205	3	Method Blank				Run: TENNELEC-3_091119C				11/30/09 10:02
Radium 228		0.8	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C09110558-001DMS		Sample Matrix Spike				Run: TENNELEC-3_091119C				11/30/09 10:02
Radium 228		17.5	pCi/L		97	70	130			
Sample ID: C09110558-001DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_091119C				11/30/09 10:02
Radium 228		17.2	pCi/L		96	70	130	1.7	32.4	

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ANALYTICAL SUMMARY REPORT

October 30, 2009

United Nuclear Corporation
21 Miles NE Of Gallup 1051 State Rd 566 (87301)
Gallup, NM 87305

Workorder No.: C09100638

Project Name: Zone 3

Energy Laboratories, Inc. received the following 5 samples for United Nuclear Corporation on 10/15/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09100638-001	NW-1	10/13/09 16:53	10/15/09	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C09100638-002	NW-2	10/13/09 16:25	10/15/09	Aqueous	Same As Above
C09100638-003	NW-3	10/13/09 16:40	10/15/09	Aqueous	Same As Above
C09100638-004	NW-4	10/13/09 16:10	10/15/09	Aqueous	Same As Above
C09100638-005	NW-5	10/13/09 16:30	10/15/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C09100638

Date: 30-Oct-09

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

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

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

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 10/30/09
Work Order: C09100638

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: R125365
Sample ID: MBLK	Method Blank				Run: MANTECH_091020A				10/20/09 11:37
Alkalinity, Total as CaCO3	4	mg/L	0.2						
Bicarbonate as HCO3	4	mg/L	1						
Sample ID: LCS1	Laboratory Control Sample				Run: MANTECH_091020A				10/20/09 11:52
Alkalinity, Total as CaCO3	201	mg/L	5.0	99	90	110			
Sample ID: LCS	Laboratory Control Sample				Run: MANTECH_091020A				10/20/09 12:00
Alkalinity, Total as CaCO3	52.9	mg/L	5.0	99	90	110			
Sample ID: C09100637-008AMS	Sample Matrix Spike				Run: MANTECH_091020A				10/20/09 12:38
Alkalinity, Total as CaCO3	511	mg/L	5.0	103	80	120			
Sample ID: C09100637-008AMSD	Sample Matrix Spike Duplicate				Run: MANTECH_091020A				10/20/09 12:45
Alkalinity, Total as CaCO3	511	mg/L	5.0	103	80	120	0.1	20	
Method: A2540 C									Batch: 091022_3_SLDS-TDS-W
Sample ID: MBLK1_091022	Method Blank				Run: BAL-1_091022B				10/22/09 13:33
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	6						
Sample ID: LCS1_091022	Laboratory Control Sample				Run: BAL-1_091022B				10/22/09 13:33
Solids, Total Dissolved TDS @ 180 C	1020	mg/L	10	102	90	110			
Sample ID: C09100638-002AMS	Sample Matrix Spike				Run: BAL-1_091022B				10/22/09 13:35
Solids, Total Dissolved TDS @ 180 C	5910	mg/L	10	101	90	110			
Sample ID: C09100638-002AMSD	Sample Matrix Spike Duplicate				Run: BAL-1_091022B				10/22/09 13:36
Solids, Total Dissolved TDS @ 180 C	5900	mg/L	10	100	90	110	0.1	10	
Method: A4500-H B									Analytical Run: ORION555A-2_091021B
Sample ID: ICV1_091021_1	Initial Calibration Verification Standard								10/21/09 15:51
pH	6.87	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 091021_2_555A-2
Sample ID: C09100325-001ADUP	Sample Duplicate				Run: ORION555A-2_091021B				10/21/09 17:18
pH	6.80	s.u.	0.010				1.5	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 10/30/09
Work Order: C09100638

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R125533
Sample ID: LCS	Laboratory Control Sample				Run: IC2-C_091022A				10/22/09 18:27
Chloride	9.71	mg/L	1.0	97	90	110			
Sample ID: MBLK	Method Blank				Run: IC2-C_091022A				10/22/09 18:45
Chloride	ND	mg/L	0.04						
Sample ID: C09100627-001AMS	Sample Matrix Spike				Run: IC2-C_091022A				10/23/09 04:54
Chloride	67.2	mg/L	1.0	100	80	120			
Sample ID: C09100627-001AMSD	Sample Matrix Spike Duplicate				Run: IC2-C_091022A				10/23/09 05:12
Chloride	67.5	mg/L	1.0	100	80	120	0.5	20	
Sample ID: C09100638-005AMS	Sample Matrix Spike				Run: IC2-C_091022A				10/23/09 08:41
Chloride	157	mg/L	1.0	102	80	120			
Sample ID: C09100638-005AMSD	Sample Matrix Spike Duplicate				Run: IC2-C_091022A				10/23/09 08:58
Chloride	157	mg/L	1.0	101	80	120	0.2	20	

Qualifiers:

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