

UNITED NUCLEAR CORPORATION



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August 28, 2008

Mr. Keith I. McConnell, Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
#2 White Flint, Mail Stop T7 E-18
Rockville, MD 20852-2738

RE: First Half – January thru June, 2008
Semi – Annual Ground Water Monitoring Report,
QA/QC Report and Effluent and Environmental Monitoring Report.

Dear Mr. McConnell:

The above reports are submitted, pursuant to our NRC Source Materials License No. SUA-1475, Condition 30C and 12; and Section V.A. 15 of the EPA Administrative Order for the Church Rock Site.

Although not part of the performance monitoring program requirement, Zone 3 wells PB-2, PB-3, RW-11, NBL-2 and RW-A January results are also included in this report.

Sincerely,

A handwritten signature in cursive script that reads "Max Chischilly Jr.".

Max Chischilly Jr.
Radiation Safety Officer

dy
Enclosures

Cc: Mark Jancin, N.A. Water System
Roy Blickwedel, GE
Steve Hill, GE
David Mayerson, NMED
Diana Malone, NNEPA
Myron Fliegel, NRC
Mark D. Purcell, USEPA Region 6
Jack E. Whitten, NRC Region IV

QUARTERLY SAMPLING
SEMI-ANNUAL GROUND WATER MONITORING REPORT
JANUARY AND APRIL OF 2008
FIELD DATA SHEET OF
FIRST AND SECOND QUARTER

CONTROLS

SW ALLUVIUM

ZONE - 1

ZONE - 3

**GROUND WATER FIELD MONITORING
WATER ELEVATION, PH, CONDUCTIVITY, AND
TEMPERATURE**

January MONTH First QUARTER, 2008

SOUTHWEST ALLUVIUM

WELL NO.	DEPT REC./ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (µs/cm)	FIELD pH (units)	FIELD TEMP. (°C)
509-D	1-14-08	76.50	6949.5	6873.00	5,778	6.48	11.1
624	1-15-08	49.95	6898.7	6848.75	3,740	6.53	9.9
627	1-15-08	57.45	6892.4	6834.95	3,740	7.05	11.6
632	1-15-08	43.20	6903.6	6860.40	5,180	6.39	10.0
801	1-14-08	50.15	6904.3	6854.15	4,690	6.49	11.5
802	1-14-08	46.45	6907.1	6860.65	5,640	6.47	11.7
803	1-14-08	60.65	6922.6	6861.95	6,430	6.47	11.7
808	1-14-08	48.14	6910.7	6862.56	4,790	6.53	11.5
GW-1	1-14-08	60.50	6916.5	6855.85	4,740	6.69	9.3
GW-2	1-14-08	54.75	6912.9	6858.15	5,260	6.42	8.7
GW-3	1-15-08	51.60	6910.0	6858.40	3,820	6.62	9.5
EPA-23	1-14-08	53.10	6926.5	6873.40	4,880	6.77	9.8
EPA-25	1-15-08	52.40	6903.4	6851.00	3,240	6.91	10.7
EPA-28	1-15-08	61.85	6917.9	6856.05	3,700	6.74	11.4
(QA/QC) EPA-28 Dup.	1-15-08	62.10	6917.9	6855.80	3,650	6.79	11.3
(QA/QC)							
SBL-1	1-15-08	49.95	6896.3	6846.35	5,390	6.89	9.5
805	1-23-08	52.20	6915.6	6863.40			
807	1-23-08	56.35	6923.4	6867.05			

COMMENTS:

**GROUND WATER FIELD MONITORING
WATER ELEVATION, PH, CONDUCTIVITY, AND
TEMPERATURE**

April MONTH Second QUARTER, 2008

SOUTHWEST ALLUVIUM

WELL NO.	DEPT REC/ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (µs/cm)	FIELD pH (units)	FIELD TEMP. (°c)
509-D	4-7-08	76.40	6949.5	6873.10	5,820	6.37	12.2
624	4-8-08	49.45	6898.7	6849.25	5,100	6.47	11.8
627	4-8-08	57.50	6892.4	6834.90	4,650	6.94	14.1
632	4-7-08	43.00	6903.6	6860.60	6,860	6.32	13.0
801	4-7-08	49.85	6904.3	6854.45	6,030	6.40	12.6
802	4-7-08	46.15	6907.1	6860.95	7,260	6.41	13.4
803	4-7-08	60.25	6922.6	6862.35	6,260	6.38	12.9
808	4-7-08	47.70	6910.7	6863.00	6,190	6.43	13.2
GW-1	4-7-08	60.15	6916.5	6856.35	6,430	6.61	13.0
GW-2	4-7-08	54.35	6912.9	6858.55	7,250	6.28	11.7
GW-3	4-8-08	51.45	6910.0	6858.55	5,080	6.56	12.6
EPA-23	4-7-08	52.80	6926.5	6873.70	4,320	6.56	12.8
EPA-25	4-8-08	52.10	6903.4	6851.30	4,200	6.78	13.1
EPA-28	4-8-08	61.70	6917.9	6856.20	4,760	6.65	13.7
(QA/QC) EPA-28 DUP.	4-8-08	61.90	6917.9	6856.00	4,760	6.69	12.8
(QA/QC)							
SBL-1	4-8-08	50.10	6896.3	6846.20	7,100	6.56	11.5
805	4-16-08	52.05	6915.6	6863.55			
807	4-16-08	56.20	6923.4	6867.20			

COMMENTS: _____

**GROUND WATER FIELD MONITORING
WATER ELEVATIONS, PH, CONDUCTIVITY, AND TEMPERATURE**

January MONTH First QUARTER, 2008

ZONE 1

WELL NO.	DEPT REC./ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (us/cm)	FIELD pH (units)	FIELD TEMP. (°c)
515-A	1-16-08	102.25	7008.8	6906.55	5,110	5.10	9.8
604	1-16-08	101.25	7006.0	6904.75	4,620	5.10	10.7
614	1-16-08	102.25	7012.0	6909.75	5,060	6.61	8.6
TWQ-142	1-22-08	201.50	6983.4	6781.90	1,744	7.62	11.8
EPA-2	1-21-08	172.00	7019.5	6847.50	2,910	6.78	11.8
EPA-4	1-21-08	205.00	7069.8	6864.80	4,580	6.73	10.4
EPA-5	1-21-08	123.45	7011.5	6888.05	4,650	5.95	10.9
EPA-7	1-21-08	113.15	7011.7	6898.55	7,550	6.15	10.0
(QA/QC) ^{EPA-2} Duplicate	1-21-08	172.55	7019.5	6846.95	2,930	6.76	11.8
(QA/QC) ^{Field} Blank	1-16-08				12	6.74	3.9
TWQ-143	1-23-08	207.50	6989.6	6782.10			
EPA-8	1-21-08	214.45	7076.4	6861.95			
505-A	1-23-08	118.00	6963.1	6845.10			
502-A	1-23-08	194.65	7025.3	6830.65			
501-A	1-23-08	211.50	7048.0	6836.50			
504-A	1-23-08	201.00	7001.4	6800.40			
412	1-23-08	184.70	6979.4	6794.70			

COMMENTS: _____

**GROUND WATER FIELD MONITORING
WATER ELEVATIONS, PH, CONDUCTIVITY, AND TEMPERATURE**

April MONTH Second QUARTER, 2008

ZONE 1

WELL NO.	DEPT REC./ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (µs/cm)	FIELD pH (units)	FIELD TEMP. (°c)
515-A	4-9-08	102.25	7008.8	6906.55	7,600	5.64	10.9
604	4-9-08	101.25	7006.0	6904.75	6,570	5.18	10.2
614	4-9-08	102.30	7012.0	6909.70	7,400	6.65	9.7
TWQ-142	4-16-08	200.85	6983.4	6782.55	1,622	7.53	12.7
EPA-2	4-14-08	172.40	7019.5	6847.10	2,720	6.53	13.3
EPA-4	4-14-08	205.30	7069.8	6864.50	3,750	6.33	14.9
EPA-5	4-14-08	123.85	7011.5	6887.65	4,280	5.72	13.8
EPA-7	4-14-08	113.65	7011.7	6898.05	6,910	5.81	14.5
EPA-2 (QA/QC) DUPLICATE	4-14-08	173.15	7019.5	6846.35	2,730	6.48	13.9
FIELD (QA/QC) BLANK	4-9-08				33	7.60	11.8
TWQ-143	4-17-08	207.40	6989.6	6782.20			
EPA-8	4-14-08	214.70	7076.4	6861.70			
505-A	4-17-08	118.17	6963.1	6844.93			
502-A	4-17-08	194.80	7025.3	6830.50			
501-A	4-17-08	211.45	7048.0	6836.55			
504-A	4-17-08	201.12	7001.4	6800.28			
412	4-17-08	184.85	6979.4	6794.55			

COMMENTS: _____

GROUND WATER FIELD MONITORING
WATER ELEVATIONS, PH, CONDUCTIVITY, AND TEMPERATURE

January MONTH First QUARTER, 2008

ZONE 3

WELL NO.	DEPT REC/ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (us/cm)	FIELD pH (units)	FIELD TEMP. (°c)
504-B	1-22-08	165.85	7001.8	6835.95	5,650	5.35	9.6
517	1-21-08	102.50	6971.75	6869.25	4,830	3.80	11.7
EPA-14	1-22-08	116.95	6965.8	6848.85	6,420	4.30	11.4
420	1-22-08	145.70	6982.6	6836.90	3,520	6.69	10.7
711	1-21-08	180.70	7042.75	6862.05	4,640	4.46	10.8
613	1-15-08	78.90	6961.3	6882.40	7,400	3.03	10.6
708	1-21-08	151.40	7012.0	6860.60	5,330	3.81	11.1
(QA/QC) ⁷¹¹ Duplicate	1-21-08	181.30	7042.75	6861.45	4,630	4.74	10.6
(QA/QC) ^{Field} Blank	1-22-08				16	6.71	9.7
NBL-1	1-22-08	179.90	6988.9	6809.00	4,470	5.88	12.3
EPA-9	1-21-08	169.85	7076.6	6906.75			
EPA-13	1-22-08	166.40	7032.9	6866.50	6,050	6.11	9.1
702	1-23-08	81.65	6974.2	6892.55			
710	1-23-08	160.80	7016.5	6855.70			
712	1-23-08	173.50	7022.2	6848.70			
713	1-23-08	165.50	7024.5	6859.00			
714	1-23-08	101.60	6962.9	6861.30			
701	1-23-08	84.15	6961.3	6877.15			
706	1-23-08	113.30	6972.5	6859.20			
707	1-23-08	154.95	7005.2	6850.25			
717	1-22-08	127.10	6972.3	6845.20	5,540	5.64	11.2
719	1-22-08	164.20	7002.0	6837.80	4,490	3.89	11.4
402	1-23-08	122.95	6968.2	6845.25			
446	1-23-08	160.75	6998.3	6837.55			
424	1-23-08	131.15	6973.1	6841.95			

COMMENTS:

- SUPPLEMENTAL -
 GROUND WATER FIELD MONITORING
 WATER ELEVATIONS, PH, CONDUCTIVITY, AND TEMPERATURE

January MONTH First QUARTER, 2008

ZONE 3

WELL NO.	DEPT REC/ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (us/cm)	FIELD pH (units)	FIELD TEMP. (°c)
PB-2	1-22-08	178.40	6989.71	6811.31	4,260	6.05	13.2
PB-3	1-22-08	177.65	6990.16	6812.51	4,220	6.37	12.1
NBL-2	1-22-08	155.15	6975.61	6820.46	3,720	6.69	10.7
RW-A	1-23-08	180.50	6983.23	6802.73	3,870	6.27	15.0
RW-11	1-23-08	171.90	6983.60	6811.70	3,840	6.23	14.0

COMMENTS: The above sampled wells are an additional/supplemental sampling and water level measurement as requested by our consultants during this 1st-Qr. [is not a quarterly or performance monitoring requirement].

**GROUND WATER FIELD MONITORING
WATER ELEVATIONS, PH, CONDUCTIVITY, AND TEMPERATURE**

April MONTH Second QUARTER, 2008

ZONE 3

WELL NO.	DEPT REC/ SAMPLE DATE	DEPTH TO WATER (FT.)	REF. ELEV.	TOP OF WATER ELEV.	FIELD COND. (us/cm)	FIELD pH (units)	FIELD TEMP. (°c)
504-B	4-15-08	165.75	7001.8	6836.05	4,830	5.24	15.7
517	4-15-08	102.65	6971.75	6869.10	4,430	3.69	14.9
EPA-14	4-15-08	117.00	6965.8	6848.80	5,870	4.20	13.3
420	4-15-08	145.90	6982.6	6836.70	3,130	6.69	13.8
711	4-14-08	181.10	7042.75	6861.65	4,230	4.46	14.8
613	4-8-08	78.95	6961.3	6882.35	9,430	2.84	12.7
708	4-15-08	151.70	7012.0	6860.30	4,740	3.72	13.6
(QA/QC) ⁷¹¹ DUPLICATE	4-14-08	181.90	7042.75	6860.85	4,180	4.69	14.8
(QA/QC) ^{FIELD} BLANK	4-16-08				31	7.85	17.5
NBL-1	4-15-08	180.15	6988.9	6808.75	3,840	5.83	14.6
EPA-9	4-14-08	170.15	7076.6	6906.45			
EPA-13	4-14-08	166.55	7032.9	6866.35	5,060	5.77	14.4
702	4-17-08	81.90	6974.2	6892.30			
710	4-17-08	161.10	7016.5	6855.40			
712	4-17-08	173.44	7022.2	6848.76			
713	4-17-08	165.81	7024.5	6858.69			
714	4-17-08	101.23	6962.9	6861.67			
701	4-17-08	83.47	6961.3	6877.83			
706	4-17-08	113.50	6972.5	6859.00			
707	4-17-08	155.28	7005.2	6849.92			
717	4-15-08	127.10	6972.3	6845.20	5,020	5.59	13.5
719	4-15-08	164.40	7002.0	6837.60	3,980	3.84	13.0
402	4-17-08	123.47	6968.2	6844.73			
446	4-17-08	161.10	6998.3	6837.20			
424	4-17-08	131.57	6973.1	6841.53			

COMMENTS: _____

QUARTERLY WATER LEVELS

1ST. QUARTER 2008

ZONE - 3

WELL NO.	DATE	TIME	DEPTH TO WATER	REFERENCE ELEVATION	TOP OF WATER ELEVATION
420	1-22-08	1000	145.70'	6982.6	6836.90
711	1-21-08	1440	180.70'	7042.75	6862.05
504-B	1-22-08	1511	165.85'	7001.8	6835.95
EPA-9	1-21-08	0941	169.85'	7076.6	6906.75
EPA-13	1-22-08	0900	166.40'	7032.9	6866.50
EPA-14	1-22-08	1030	116.95'	6965.8	6848.85
702	1-23-08	1415	81.65'	6974.2	6892.55
710	1-23-08	1328	160.80'	7016.5	6855.70
712	1-23-08	1317	173.50'	7022.2	6848.70
713	1-23-08	1313	165.50'	7024.5	6859.00
714	1-23-08	1355	101.60'	6962.9	6861.30
613	1-15-08	1205	78.90'	6961.3	6882.40
701	1-23-08	1402	84.15'	6961.3	6877.15
706	1-23-08	1345	113.30'	6972.5	6859.20
707	1-23-08	1322	154.95'	7005.2	6850.25
717	1-22-08	1056	127.10'	6972.3	6845.20
719	1-22-08	0930	164.20'	7002.0	6837.80
402	1-23-08	1348	122.95'	6968.2	6845.25
424	1-23-08	1350	131.15'	6973.1	6841.95
446	1-23-08	1307	160.75'	6998.3	6837.55
517	1-21-08	1333	102.50'	6971.75	6869.25
708	1-21-08	1410	151.40'	7012.0	6860.60
NBL-1	1-22-08	1330	179.90'	6988.9	6809.00

QUARTERLY WATER LEVELS

2nd QUARTER 2008

ZONE - 3

WELL NO.	DATE	TIME	DEPTH TO WATER	REFERENCE ELEVATION	TOP OF WATER ELEVATION
420	4-15-08	0920	145.90'	6982.6	6836.70
711	4-14-08	1450	181.10'	7042.75	6861.65
504-B	4-15-08	1500	165.75'	7001.8	6836.05
EPA-9	4-14-08	1415	170.15'	7076.6	6906.45
EPA-13	4-14-08	1600	166.55'	7032.9	6866.35
EPA-14	4-15-08	1035	117.00'	6965.8	6848.80
702	4-17-08	1332	81.90'	6974.2	6892.30
710	4-17-08	1358	161.10'	7016.5	6855.40
712	4-17-08	1402	173.44'	7022.2	6848.76
713	4-17-08	1408	165.81'	7024.5	6858.69
714	4-17-08	1343	101.23'	6962.9	6861.67
613	4-8-08	1115	78.95'	6961.3	6882.35
701	4-17-08	1338	83.47'	6961.3	6877.83
706	4-17-08	1348	113.50'	6972.5	6859.00
707	4-17-08	1354	155.28'	7005.2	6849.92
717	4-15-08	1000	127.10'	6972.3	6845.20
719	4-15-08	0850	164.40'	7002.0	6837.60
402	4-17-08	1415	123.47'	6968.2	6844.73
424	4-17-08	1418	131.57'	6973.1	6841.53
446	4-17-08	1425	161.10'	6998.3	6837.20
517	4-15-08	1150	102.65'	6971.75	6869.10
708	4-15-08	1115	151.70'	7012.0	6860.30
NBL-1	4-15-08	1335	180.15'	6988.9	6808.75

QUARTERLY SAMPLING
SEMI-ANNUAL GROUND WATER MONITORING REPORT

JANUARY AND APRIL OF 2008

SOUTH WEST ALLUVIUM

*509-D

624

627

*632

801

802

803

808

*GW-1

*GW-2

*GW-3

*EPA-23

EPA-25

*EPA-28

SBL-1

LEVELS ONLY

805

807

***POINT OF COMPLIANCE WELLS**



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-001
 Client Sample ID: 509-D

Report Date: 04/01/08
 Collection Date: 01/14/08 09:27
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	2280	mg/L		1		A2320 B	01/21/08 14:05 / bas
Calcium	886	mg/L	D	0.8		E200.7	02/01/08 15:26 / cp
Chloride	374	mg/L	D	4		E200.7	02/01/08 15:26 / cp
Magnesium	337	mg/L	D	0.8		E200.7	02/01/08 15:26 / cp
Nitrogen, Ammonia as N	0.12	mg/L		0.05		A4500-NH3.G	01/22/08 13:43 / jal
Nitrogen, Nitrate+Nitrite as N	13.3	mg/L	D	0.3		E353.2	01/23/08 13:18 / jal
Potassium	13.0	mg/L		0.5		E200.7	02/01/08 15:26 / cp
Sodium	334	mg/L	D	5		E200.7	02/01/08 15:26 / cp
Sulfate	1660	mg/L	D	2		E200.7	02/01/08 15:26 / cp
PHYSICAL PROPERTIES							
pH	6.35	s.u.		0.01		A4500-H B	01/19/08 10:17 / gg
Solids, Total Dissolved TDS @ 180 C	5030	mg/L		10		A2540 C	01/21/08 12:42 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 04:38 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 03:45 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 03:45 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 03:45 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 03:45 / ts
Manganese	3.60	mg/L		0.01		E200.8	01/29/08 03:45 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 03:45 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 03:45 / ts
Uranium	0.232	mg/L		0.0003		E200.8	01/29/08 03:45 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 03:45 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 14:27 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:21 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 09:56 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.03	%				Calculation	02/11/08 17:31 / sw
Anions	83.5	meq/L				Calculation	02/11/08 17:31 / sw
Cations	87.0	meq/L				Calculation	02/11/08 17:31 / sw
Solids, Total Dissolved Calculated	4790	mg/L				Calculation	02/11/08 17:31 / sw
TDS Balance (0.80 - 1.20)	1.05	dec. %				Calculation	02/11/08 17:31 / sw

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-001
Client Sample ID 509-D

Report Date: 04/01/08
Collection Date: 01/14/08 09:27
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 22:06 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 22:06 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 22:06 / jlr
Chloroform	ND	ug/L		0.50		E624	01/21/08 22:06 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/21/08 22:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		E624	01/21/08 22:06 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/21/08 22:06 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/21/08 22:06 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		E624	01/21/08 22:06 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-001
 Client Sample ID: 509-D

Report Date: 06/10/08
 Collection Date: 04/07/08 09:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	2150	mg/L		1		A2320 B	04/15/08 12:14 / ljl
Calcium	876	mg/L	D	1		E200.7	04/30/08 18:15 / cp
Chloride	361	mg/L		1		A4500-Cl B	04/17/08 16:27 / jl
Magnesium	409	mg/L	D	1		E200.7	04/30/08 18:15 / cp
Nitrogen, Ammonia as N	1.2	mg/L	D	0.1		E350.1	04/17/08 14:44 / eli-b
Nitrogen, Nitrate+Nitrite as N	21.1	mg/L		0.1		E353.2	04/19/08 07:38 / eli-b
Potassium	15.0	mg/L	D	0.8		E200.7	04/30/08 18:15 / cp
Sodium	370	mg/L	D	1		E200.7	04/30/08 18:15 / cp
Sulfate	1970	mg/L	D	30		A4500-SO ₄ E	04/17/08 16:36 / ljl
PHYSICAL PROPERTIES							
pH	6.70	s.u.		0.01		A4500-H B	04/14/08 22:22 / dnp
Solids, Total Dissolved TDS @ 180 C	5210	mg/L		10		A2540 C	04/16/08 16:55 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 19:26 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 19:26 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 19:26 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 19:26 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 19:26 / sml
Manganese	2.72	mg/L		0.01		E200.8	04/30/08 19:26 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 19:26 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 19:26 / sml
Uranium	0.218	mg/L		0.0003		E200.8	04/30/08 19:26 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 19:26 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:43 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.3	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.5	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-001
 Client Sample ID: 509-D

Report Date: 06/10/08
 Collection Date: 04/07/08 09:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.07	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.6	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.42	%				Calculation	06/02/08 13:25 / jc
Anions	87.9	meq/L				Calculation	06/02/08 13:25 / jc
Cations	94.1	meq/L				Calculation	06/02/08 13:25 / jc
Solids, Total Dissolved Calculated	5170	mg/L				Calculation	06/02/08 13:25 / jc
TDS Balance (0.80 - 1.20)	1.01	dec. %				Calculation	06/02/08 13:25 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 20:22 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 20:22 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 20:22 / jlr
Chloroform	ND	ug/L		0.50		E624	04/14/08 20:22 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/14/08 20:22 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	04/14/08 20:22 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	04/14/08 20:22 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	04/14/08 20:22 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	04/14/08 20:22 / 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

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

Well ID:	509-D	509-D	509-D	509-D	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/16/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-001	C08010860-001	C07100328-001	C07070680-001
Bicarbonate as HCO ₃	mg/L	2150	2280	2340	2450
Calcium	mg/L	876	886	826	891
Chloride	mg/L	361	374	352	324
Magnesium	mg/L	409	337	334	364
Nitrogen, Ammonia as N	mg/L	1.2	0.12	0.62	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	21.1	13.3	12.4	12.4
Potassium	mg/L	15.0	13.0	13.1	12.2
Sodium	mg/L	370	334	334	356
Sulfate	mg/L	1970	1660	1720	1730
pH	s.u.	6.70	6.35	6.75	6.69
Solids, Total Dissolved TDS @ 180 C	mg/L	5210	5030	5180	5110
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	2.72	3.60	3.55	2.25
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	0.218	0.232	0.246	0.240
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)	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	1.6	1.6	1.5	1.0
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.7	0.7	0.4
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.3	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2			
Radium 228	pCi/L	0.5	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	-0.07	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.6			
A/C Balance (± 5)		3.42	2.03	-0.649	2.48
Anions		87.9	83.5	85.0	86.1
Cations		94.1	87.0	83.9	90.4
Solids, Total Dissolved Calculated		5170	4790	4790	4950
TDS Balance (0.80 - 1.20)		1.01	1.05	1.08	1.03
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-009
 Client Sample ID: 624

Report Date: 04/01/08
 Collection Date: 01/15/08 09:20
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1390	mg/L		1		A2320 B	01/21/08 16:33 / bas
Calcium	650	mg/L	D	0.8		E200.7	02/01/08 16:12 / cp
Chloride	205	mg/L	D	4		E200.7	02/01/08 16:12 / cp
Magnesium	396	mg/L	D	0.8		E200.7	02/01/08 16:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 14:05 / jal
Nitrogen, Nitrate+Nitrite as N	68	mg/L	D	2		E353.2	01/23/08 13:56 / jal
Potassium	7.1	mg/L		0.5		E200.7	02/01/08 16:12 / cp
Sodium	246	mg/L	D	5		E200.7	02/01/08 16:12 / cp
Sulfate	2000	mg/L	D	2		E200.7	02/01/08 16:12 / cp
PHYSICAL PROPERTIES							
pH	6.69	s.u.		0.01		A4500-H B	01/19/08 10:26 / gg
Solids, Total Dissolved TDS @ 180 C	5110	mg/L		10		A2540 C	01/21/08 12:48 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:22 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 17:07 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:20 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 05:20 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 05:20 / ts
Manganese	0.09	mg/L		0.01		E200.8	01/29/08 05:20 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 06:22 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 05:20 / ts
Uranium	0.0307	mg/L		0.0003		E200.8	01/30/08 06:22 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:20 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 15:29 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:51 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 20:00 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.524	%				Calculation	02/11/08 17:34 / sw
Anions	75.1	meq/L				Calculation	02/11/08 17:34 / sw
Cations	75.9	meq/L				Calculation	02/11/08 17:34 / sw
Solids, Total Dissolved Calculated	4490	mg/L				Calculation	02/11/08 17:34 / sw
TDS Balance (0.80 - 1.20)	1.14	dec. %				Calculation	02/11/08 17:34 / sw

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-009
Client Sample ID 624

Report Date: 04/01/08
Collection Date: 01/15/08 09:20
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 03:10 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 03:10 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 03:10 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 03:10 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/22/08 03:10 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	01/22/08 03:10 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/22/08 03:10 / jlr
Surr: p-Bromofluorobenzene	95.0	%REC		80-120		E624	01/22/08 03:10 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	01/22/08 03:10 / jlr

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-010
 Client Sample ID: 624

Report Date: 06/10/08
 Collection Date: 04/08/08 08:40
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1320	mg/L		1		A2320 B	04/15/08 14:01 / ljl
Calcium	708	mg/L	D	1		E200.7	04/30/08 19:33 / cp
Chloride	174	mg/L		1		A4500-Cl B	04/17/08 16:44 / jl
Magnesium	442	mg/L	D	1		E200.7	04/30/08 19:33 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	04/17/08 15:00 / eli-b
Nitrogen, Nitrate+Nitrite as N	108	mg/L	D	0.2		E353.2	04/21/08 10:53 / eli-b
Potassium	8.2	mg/L	D	0.8		E200.7	04/30/08 19:33 / cp
Sodium	280	mg/L	D	1		E200.7	04/30/08 19:33 / cp
Sulfate	2240	mg/L	D	60		A4500-SO ₄ E	04/17/08 17:03 / ljl
PHYSICAL PROPERTIES							
pH	6.90	s.u.		0.01		A4500-H B	04/14/08 22:54 / dnp
Solids, Total Dissolved TDS @ 180 C	4830	mg/L		10		A2540 C	04/14/08 22:37 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 20:26 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 20:26 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 20:26 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 20:26 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 20:26 / sml
Manganese	0.10	mg/L		0.01		E200.8	04/30/08 20:26 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 20:26 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 20:26 / sml
Uranium	0.0325	mg/L		0.0003		E200.8	04/30/08 20:26 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 20:26 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:15 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.9	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.04	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-010
 Client Sample ID: 624

Report Date: 06/10/08
 Collection Date: 04/08/08 08:40
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.5	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.7	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.92	%				Calculation	06/02/08 13:32 / jc
Anions	80.9	meq/L				Calculation	06/02/08 13:32 / jc
Cations	84.1	meq/L				Calculation	06/02/08 13:32 / jc
Solids, Total Dissolved Calculated	5000	mg/L				Calculation	06/02/08 13:32 / jc
TDS Balance (0.80 - 1.20)	0.970	dec. %				Calculation	06/02/08 13:32 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 02:45 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 02:45 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 02:45 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 02:45 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 02:45 / jlr
Surr: 1,2-Dichlorobenzene-d4	107	%REC		80-120		E624	04/15/08 02:45 / jlr
Surr: Dibromofluoromethane	98.0	%REC		80-120		E624	04/15/08 02:45 / jlr
Surr: p-Bromofluorobenzene	101	%REC		80-120		E624	04/15/08 02:45 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/15/08 02:45 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-010
 Client Sample ID: 624

Revised Date: 07/20/08
 Report Date: 06/10/08
 Collection Date: 04/08/08 08:40
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.9	pCi/L	U	1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.04	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / plj
Thorium 230	0.5	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.7	pCi/L				E907.0	04/18/08 13:30 / dmf

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



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

Well ID:	624	624	624	624	
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-010	C08010860-009	C07100328-009	C07070680-010
Bicarbonate as HCO ₃	mg/L	1320	1390	1430	1450
Calcium	mg/L	708	650	626	702
Chloride	mg/L	174	205	188	154
Magnesium	mg/L	442	396	385	433
Nitrogen, Ammonia as N	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	0.08
Nitrogen, Nitrate+Nitrite as N	mg/L	108	68	74	77
Potassium	mg/L	8.2	7.1	6.9	6.2
Sodium	mg/L	280	246	246	245
Sulfate	mg/L	2240	2000	1990	2230
pH	s.u.	6.90	6.69	6.91	6.87
Solids, Total Dissolved TDS @ 180 C	mg/L	4830	5110	5030	5020
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	0.10	0.09	0.10	0.08
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	0.0325	0.0307	0.0341	0.0339
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)	0.009
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.9	ND(1.0)	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4			
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	-0.04	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	0.5	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.7			
A/C Balance (± 5)		1.92	0.524	-1.08	0.955
Anions		80.9	75.1	75.4	79.9
Cations		84.1	75.9	73.8	81.5
Solids, Total Dissolved Calculated		5000	4490	4470	4840
TDS Balance (0.80 - 1.20)		0.970	1.14	1.13	1.04
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp.
 Project: Alluvium
 Lab ID: C08010860-016
 Client Sample ID 627

Report Date: 04/01/08
 Collection Date: 01/15/08 15:00
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	568	mg/L		1		A2320 B	01/21/08 17:36 / bas
Calcium	532	mg/L	D	0.8		E200.7	02/01/08 16:35 / cp
Chloride	64	mg/L	D	4		E200.7	02/01/08 16:35 / cp
Magnesium	256	mg/L	D	0.8		E200.7	02/01/08 16:35 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 14:54 / jal
Nitrogen, Nitrate+Nitrite as N	109	mg/L	D	2		E353.2	01/23/08 14:26 / jal
Potassium	6.7	mg/L		0.5		E200.7	02/01/08 16:35 / cp
Sodium	513	mg/L	D	5		E200.7	02/01/08 16:35 / cp
Sulfate	2340	mg/L	D	2		E200.7	02/01/08 16:35 / cp
PHYSICAL PROPERTIES							
pH	7.03	s.u.		0.01		A4500-H B	01/19/08 10:47 / gg
Solids, Total Dissolved TDS @ 180 C	4750	mg/L		10		A2540 C	01/21/08 12:51 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 07:22 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 18:22 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/30/08 07:22 / sml
Cobalt	ND	mg/L		0.01		E200.8	01/30/08 07:22 / sml
Lead	ND	mg/L		0.05		E200.8	01/30/08 07:22 / sml
Manganese	ND	mg/L		0.01		E200.8	01/30/08 07:22 / sml
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 07:22 / sml
Nickel	ND	mg/L		0.05		E200.8	01/30/08 07:22 / sml
Uranium	0.0224	mg/L		0.0003		E200.8	01/30/08 07:22 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/30/08 07:22 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 17:09 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 13:06 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 22:09 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/04/08 03:03 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.75	%				Calculation	02/11/08 17:40 / sw
Anions	67.7	meq/L				Calculation	02/11/08 17:40 / sw
Cations	70.1	meq/L				Calculation	02/11/08 17:40 / sw
Solids, Total Dissolved Calculated	4480	mg/L				Calculation	02/11/08 17:40 / sw
TDS Balance (0.80 - 1.20)	1.06	dec. %				Calculation	02/11/08 17:40 / sw

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-016
Client Sample ID 627

Report Date: 04/01/08
Collection Date: 01/15/08 15:00
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 20:57 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 20:57 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 20:57 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 20:57 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/22/08 20:57 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	01/22/08 20:57 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/22/08 20:57 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/22/08 20:57 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/22/08 20:57 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-016
 Client Sample ID: 627

Report Date: 06/10/08
 Collection Date: 04/08/08 14:35
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	546	mg/L		1		A2320 B	04/15/08 15:03 / ljl
Calcium	565	mg/L	D	1		E200.7	04/30/08 20:13 / cp
Chloride	36	mg/L		1		A4500-Cl B	04/17/08 16:53 / jl
Magnesium	282	mg/L	D	1		E200.7	04/30/08 20:13 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:38 / eli-b
Nitrogen, Nitrate+Nitrite as N	159	mg/L	D	0.2		E353.2	04/21/08 10:59 / eli-b
Potassium	6.4	mg/L	D	0.8		E200.7	04/30/08 20:13 / cp
Sodium	528	mg/L	D	1		E200.7	04/30/08 20:13 / cp
Sulfate	2530	mg/L	D	30		A4500-SO4 E	04/17/08 17:33 / ljl
PHYSICAL PROPERTIES							
pH	7.32	s.u.		0.01		A4500-H B	04/14/08 23:03 / dnp
Solids, Total Dissolved TDS @ 180 C	4600	mg/L		10		A2540 C	04/14/08 22:39 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 21:41 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 21:41 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 21:41 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 21:41 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 21:41 / sml
Manganese	ND	mg/L		0.01		E200.8	04/30/08 21:41 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 21:41 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 21:41 / sml
Uranium	0.0227	mg/L		0.0003		E200.8	04/30/08 21:41 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 21:41 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:40 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L		1.0		E900.1	04/28/08 19:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 19:41 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	1	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.003	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.7	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-016
 Client Sample ID: 627

Report Date: 06/10/08
 Collection Date: 04/08/08 14:35
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.402	%				Calculation	06/02/08 13:35 / jc
Anions	73.9	meq/L				Calculation	06/02/08 13:35 / jc
Cations	74.5	meq/L				Calculation	06/02/08 13:35 / jc
Solids, Total Dissolved Calculated	4930	mg/L				Calculation	06/02/08 13:35 / jc
TDS Balance (0.80 - 1.20)	0.930	dec. %				Calculation	06/02/08 13:35 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 18:13 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 18:13 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 18:13 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 18:13 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 18:13 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	04/15/08 18:13 / jlr
Surr: Dibromofluoromethane	98.0	%REC		80-120		E624	04/15/08 18:13 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	04/15/08 18:13 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	04/15/08 18:13 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-016
 Client Sample ID: 627

Revised Date: 07/20/08
 Report Date: 06/10/08
 Collection Date: 04/08/08 14:35
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L	U	1.0		E900.1	04/28/08 19:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 19:41 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	1	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.003	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.7	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / plj
Thorium 230	0.2	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/18/08 13:30 / dmf

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



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

Well ID:	627	627	627	627	
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/10/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-016	C08010860-016	C07100328-016	C07070680-016
Bicarbonate as HCO3	mg/L	546	568	593	612
Calcium	mg/L	565	532	486	571
Chloride	mg/L	36	64	63	41
Magnesium	mg/L	282	256	244	278
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	0.18	0.05
Nitrogen, Nitrate+Nitrite as N	mg/L	159	109	107	117
Potassium	mg/L	6.4	6.7	6.2	5.8
Sodium	mg/L	528	513	469	489
Sulfate	mg/L	2530	2340	2270	2590
pH	s.u.	7.32	7.03	7.26	6.81
Solids, Total Dissolved TDS @ 180 C	mg/L	4600	4750	4710	4590
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	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
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	0.0227	0.0224	0.0243	0.0246
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.0	ND(1.0)	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4			
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	1			
Radium 226	pCi/L	0.003	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	-0.7	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.4			
A/C Balance (± 5)		0.402	1.75	-1.18	-0.396
Anions		73.9	67.7	66.4	73.4
Cations		74.5	70.1	64.9	72.8
Solids, Total Dissolved Calculated		4930	4480	4300	4800
TDS Balance (0.80 - 1.20)		0.930	1.06	1.10	0.960
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-013
 Client Sample ID 632

Report Date: 04/01/08
 Collection Date: 01/15/08 11:30
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1910	mg/L		1		A2320 B	01/21/08 17:09 / bas
Calcium	551	mg/L	D	0.8		E200.7	02/01/08 16:25 / cp
Chloride	248	mg/L	D	4		E200.7	02/01/08 16:25 / cp
Magnesium	738	mg/L	D	0.8		E200.7	02/01/08 16:25 / cp
Nitrogen, Ammonia as N	0.70	mg/L		0.05		A4500-NH3 G	01/22/08 14:21 / jal
Nitrogen, Nitrate+Nitrite as N	68	mg/L	D	2		E353.2	01/23/08 14:18 / jal
Potassium	10.3	mg/L		0.5		E200.7	02/01/08 16:25 / cp
Sodium	366	mg/L	D	5		E200.7	02/01/08 16:25 / cp
Sulfate	3000	mg/L	D	2		E200.7	02/01/08 16:25 / cp
PHYSICAL PROPERTIES							
pH	6.58	s.u.		0.01		A4500-H B	01/19/08 10:43 / gg
Solids, Total Dissolved TDS @ 180 C	7350	mg/L	H	10		A2540 C	02/13/08 15:59 / gg
- H-Original analysis was done within hold time. Data is from recheck analysis.							
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:52 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 18:02 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:47 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 05:47 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 06:52 / sml
Manganese	1.94	mg/L		0.01		E200.8	01/29/08 05:47 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 06:52 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 05:47 / ts
Uranium	0.0667	mg/L	D	0.0004		E200.8	01/30/08 06:52 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:47 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 16:46 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:59 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.0	pCi/L		1.0		E900.1	02/01/08 22:09 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/01/08 22:09 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	0.9	pCi/L		0.2		E903.0	02/04/08 00:01 / taj
Radium 226 precision (±)	0.4	pCi/L				E903.0	02/04/08 00:01 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-013
 Client Sample ID: 632

Report Date: 04/01/08
 Collection Date: 01/15/08 11:30
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-0.477	%				Calculation	02/14/08 17:19 / sw
Anions	106	meq/L				Calculation	02/14/08 17:19 / sw
Cations	105	meq/L				Calculation	02/14/08 17:19 / sw
Solids, Total Dissolved Calculated	6150	mg/L				Calculation	02/14/08 17:19 / sw
TDS Balance (0.80 - 1.20)	1.20	dec. %				Calculation	02/14/08 17:19 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 05:42 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 05:42 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 05:42 / jlr
Chloroform	3.60	ug/L		0.50		E624	01/22/08 05:42 / jlr
Trihalomethanes, Total	3.60	ug/L		0.50		E624	01/22/08 05:42 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	01/22/08 05:42 / jlr
Surr: Dibromofluoromethane	114	%REC		80-120		E624	01/22/08 05:42 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/22/08 05:42 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/22/08 05:42 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-009
 Client Sample ID: 632

Report Date: 06/10/08
 Collection Date: 04/07/08 16:10
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1830	mg/L		1		A2320 B	04/15/08 13:34 / ljl
Calcium	647	mg/L	D	1		E200.7	04/30/08 19:29 / cp
Chloride	231	mg/L		1		A4500-Cl B	04/17/08 16:42 / jl
Magnesium	870	mg/L	D	1		E200.7	04/30/08 19:29 / cp
Nitrogen, Ammonia as N	0.6	mg/L	D	0.1		E350.1	04/22/08 14:21 / eli-b
Nitrogen, Nitrate+Nitrite as N	113	mg/L	D	0.2		E353.2	04/21/08 10:52 / eli-b
Potassium	12.6	mg/L	D	0.8		E200.7	04/30/08 19:29 / cp
Sodium	436	mg/L	D	1		E200.7	04/30/08 19:29 / cp
Sulfate	3550	mg/L	D	60		A4500-SO4 E	04/17/08 17:01 / ljl
PHYSICAL PROPERTIES							
pH	6.75	s.u.		0.01		A4500-H B	04/14/08 22:52 / dnp
Solids, Total Dissolved TDS @ 180 C	6910	mg/L		10		A2540 C	04/14/08 22:37 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 20:20 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 20:20 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 20:20 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 20:20 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 20:20 / sml
Manganese	2.29	mg/L		0.01		E200.8	04/30/08 20:20 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 20:20 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 20:20 / sml
Uranium	0.0836	mg/L		0.0003		E200.8	04/30/08 20:20 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 20:20 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:13 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.7	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	1	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.8	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	2.5	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-009
 Client Sample ID: 632

Report Date: 06/10/08
 Collection Date: 04/07/08 16:10
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.6	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	1	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.98	%				Calculation	06/02/08 13:32 / jc
Anions	119	meq/L				Calculation	06/02/08 13:32 / jc
Cations	123	meq/L				Calculation	06/02/08 13:32 / jc
Solids, Total Dissolved Calculated	7170	mg/L				Calculation	06/02/08 13:32 / jc
TDS Balance (0.80 - 1.20)	0.960	dec. %				Calculation	06/02/08 13:32 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 01:28 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 01:28 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 01:28 / jlr
Chloroform	3.30	ug/L		0.50		E624	04/15/08 01:28 / jlr
Trihalomethanes, Total	3.30	ug/L		0.50		E624	04/15/08 01:28 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	04/15/08 01:28 / jlr
Surr: Dibromofluoromethane	99.0	%REC		80-120		E624	04/15/08 01:28 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	04/15/08 01:28 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/15/08 01:28 / 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.

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

Well ID:	632	632	632	632	
Collection Date:	4/7/2008	1/15/2008	10/2/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-009	C08010860-013	C07100328-013	C07070680-009
Bicarbonate as HCO ₃	mg/L	1830	1910	1970	2030
Calcium	mg/L	647	551	568	605
Chloride	mg/L	231	248	259	140
Magnesium	mg/L	870	738	774	820
Nitrogen, Ammonia as N	mg/L	0.6	0.70	0.61	0.62
Nitrogen, Nitrate+Nitrite as N	mg/L	113	68	70	78
Potassium	mg/L	12.6	10.3	10.9	10.9
Sodium	mg/L	436	366	388	410
Sulfate	mg/L	3550	3000	3210	3400
pH	s. u.	6.75	6.58	6.62	6.64
Solids, Total Dissolved TDS @ 180 C	mg/L	6910	7350	7350	7200
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	2.29	1.94	2.35	1.99
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	0.0836	0.0667	0.0819	0.0847
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.7	2.0	2.4	1.4
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.7	0.8	0.4
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	1			
Radium 226	pCi/L	0.8	0.9	0.7	0.6
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2	0.4	0.2	0.3
Radium 228	pCi/L	2.5	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	0.6	ND(0.2)	1.6	ND(0.2)
Thorium 230 precision (±)	pCi/L	1		1.0	
A/C Balance (± 5)		1.98	-0.477	-0.962	1.07
Anions		119	106	112	114
Cations		123	105	109	116
Solids, Total Dissolved Calculated		7170	6150	6490	6740
TDS Balance (0.80 - 1.20)		0.960	1.20	1.13	1.07
Trihalomethanes, Total		3.30	3.60	3.57	3.56

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-006
 Client Sample ID 801

Report Date: 04/01/08
 Collection Date: 01/14/08 13:45
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	1440	mg/L		1		A2320 B	01/21/08 15:06 / bas
Calcium	528	mg/L	D	0.8		E200.7	02/01/08 16:02 / cp
Chloride	209	mg/L	D	4		E200.7	02/01/08 16:02 / cp
Magnesium	669	mg/L	D	0.8		E200.7	02/01/08 16:02 / cp
Nitrogen, Ammonia as N	3.55	mg/L		0.05		A4500-NH3 G	01/22/08 13:59 / jal
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	01/23/08 13:43 / jal
Potassium	13.0	mg/L		0.5		E200.7	02/01/08 16:02 / cp
Sodium	334	mg/L	D	5		E200.7	02/01/08 16:02 / cp
Sulfate	3100	mg/L	D	2		E200.7	02/01/08 16:02 / cp
PHYSICAL PROPERTIES							
pH	6.65	s.u.		0.01		A4500-H B	01/19/08 10:23 / gg
Solids, Total Dissolved TDS @ 180 C	6580	mg/L		10		A2540 C	01/21/08 12:47 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:00 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 04:32 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 04:32 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 04:32 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 06:00 / sml
Manganese	3.81	mg/L		0.01		E200.8	01/29/08 04:32 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 04:32 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 04:32 / ts
Uranium	0.0366	mg/L		0.0003		E200.8	01/30/08 06:00 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 04:32 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 15:06 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:32 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 16:58 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.39	%				Calculation	02/11/08 17:33 / sw
Anions	94.1	meq/L				Calculation	02/11/08 17:33 / sw
Cations	96.8	meq/L				Calculation	02/11/08 17:33 / sw
Solids, Total Dissolved Calculated	5570	mg/L				Calculation	02/11/08 17:33 / sw
TDS Balance (0.80 - 1.20)	1.18	dec. %				Calculation	02/11/08 17:33 / sw

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-006
Client Sample ID 801

Report Date: 04/01/08
Collection Date: 01/14/08 13:45
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 01:16 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 01:16 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 01:16 / jlr
Chloroform	2.68	ug/L		0.50		E624	01/22/08 01:16 / jlr
Trihalomethanes, Total	2.68	ug/L		0.50		E624	01/22/08 01:16 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	01/22/08 01:16 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/22/08 01:16 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/22/08 01:16 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/22/08 01:16 / jlr

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-006
 Client Sample ID: 801

Report Date: 06/10/08
 Collection Date: 04/07/08 13:50
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1380	mg/L		1		A2320 B	04/15/08 13:06 / ljl
Calcium	578	mg/L	D	1		E200.7	04/30/08 19:19 / cp
Chloride	197	mg/L		1		A4500-Cl B	04/17/08 16:38 / jl
Magnesium	763	mg/L	D	1		E200.7	04/30/08 19:19 / cp
Nitrogen, Ammonia as N	3.3	mg/L	D	0.1		E350.1	04/22/08 14:19 / eli-b
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	04/19/08 08:43 / eli-b
Potassium	14.4	mg/L	D	0.8		E200.7	04/30/08 19:19 / cp
Sodium	375	mg/L	D	1		E200.7	04/30/08 19:19 / cp
Sulfate	3610	mg/L	D	60		A4500-SO ₄ E	04/17/08 16:52 / ljl
PHYSICAL PROPERTIES							
pH	6.75	s.u.		0.01		A4500-H B	04/14/08 22:31 / dnp
Solids, Total Dissolved TDS @ 180 C	6190	mg/L		10		A2540 C	04/16/08 15:52 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 20:00 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 20:00 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 20:00 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 20:00 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 20:00 / sml
Manganese	4.01	mg/L		0.01		E200.8	04/30/08 20:00 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 20:00 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 20:00 / sml
Uranium	0.0395	mg/L		0.0003		E200.8	04/30/08 20:00 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 20:00 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:58 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.5	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	-4.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.5	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	1.2	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / plj

Report: RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-006
 Client Sample ID: 801

Report Date: 06/10/08
 Collection Date: 04/07/08 13:50
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.52	%				Calculation	06/02/08 13:30 / jc
Anions	103	meq/L				Calculation	06/02/08 13:30 / jc
Cations	109	meq/L				Calculation	06/02/08 13:30 / jc
Solids, Total Dissolved Calculated	6250	mg/L				Calculation	06/02/08 13:30 / jc
TDS Balance (0.80 - 1.20)	0.990	dec. %				Calculation	06/02/08 13:30 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 23:33 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 23:33 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 23:33 / jlr
Chloroform	2.78	ug/L		0.50		E624	04/14/08 23:33 / jlr
Trihalomethanes, Total	2.78	ug/L		0.50		E624	04/14/08 23:33 / jlr
Surr: 1,2-Dichlorobenzene-d4	109	%REC		80-120		E624	04/14/08 23:33 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	04/14/08 23:33 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		E624	04/14/08 23:33 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/14/08 23:33 / 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.



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

Well ID:	801	801	801	801	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-006	C08010860-006	C07100328-006	C07070680-006
Bicarbonate as HCO3	mg/L	1380	1440	1490	1510
Calcium	mg/L	578	528	514	573
Chloride	mg/L	197	209	223	179
Magnesium	mg/L	763	669	661	726
Nitrogen, Ammonia as N	mg/L	3.3	3.55	3.37	2.77
Nitrogen, Nitrate+Nitrite as N	mg/L	0.9	0.9	0.8	0.8
Potassium	mg/L	14.4	13.0	13.5	13.3
Sodium	mg/L	375	334	338	352
Sulfate	mg/L	3610	3100	3200	3500
pH	s.u.	6.75	6.65	6.65	6.75
Solids, Total Dissolved TDS @ 180 C	mg/L	6190	6580	6470	6200
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	4.01	3.81	4.25	3.43
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	0.0395	0.0366	0.0431	0.0423
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.5	ND(1.0)	1.3	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4		0.7	
Lead 210	pCi/L	4.5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.5	ND(0.2)	0.5	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2		0.2	
Radium 228	pCi/L	1.2	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	0.2	ND(0.2)	1.5	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5		1.0	
A/C Balance (± 5)		2.52	1.39	-0.909	0.800
Anions		103	94.1	97.4	103
Cations		109	96.8	95.6	104
Solids, Total Dissolved Calculated		6250	5570	5690	6110
TDS Balance (0.80 - 1.20)		0.990	1.18	1.14	1.01
Trihalomethanes, Total		2.78	2.68	2.96	2.84

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-005
Client Sample ID 802

Report Date: 04/01/08
Collection Date: 01/14/08 11:55
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	2160	mg/L		1		A2320 B	01/21/08 14:55 / bas
Calcium	622	mg/L	D	0.8		E200.7	02/01/08 15:39 / cp
Chloride	219	mg/L	D	4		E200.7	02/01/08 15:39 / cp
Magnesium	961	mg/L	D	0.8		E200.7	02/01/08 15:39 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 13:53 / jal
Nitrogen, Nitrate+Nitrite as N	97	mg/L	D	2		E353.2	01/23/08 13:41 / jal
Potassium	7.6	mg/L		0.5		E200.7	02/01/08 15:39 / cp
Sodium	344	mg/L	D	5		E200.7	02/01/08 15:39 / cp
Sulfate	3530	mg/L	D	2		E200.7	02/01/08 15:39 / cp
PHYSICAL PROPERTIES							
pH	6.60	s.u.		0.01		A4500-H B	01/19/08 10:22 / gg
Solids, Total Dissolved TDS @ 180 C	8170	mg/L		10		A2540 C	01/21/08 12:46 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 05:08 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 04:12 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 04:12 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 04:12 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 05:08 / sml
Manganese	0.80	mg/L		0.01		E200.8	01/29/08 04:12 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 04:12 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 04:12 / ts
Uranium	0.128	mg/L	D	0.0004		E200.8	01/30/08 05:08 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 04:12 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 14:58 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:30 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 15:58 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.32	%				Calculation	02/11/08 17:32 / sw
Anions	122	meq/L				Calculation	02/11/08 17:32 / sw
Cations	125	meq/L				Calculation	02/11/08 17:32 / sw
Solids, Total Dissolved Calculated	7180	mg/L				Calculation	02/11/08 17:32 / sw
TDS Balance (0.80 - 1.20)	1.14	dec. %				Calculation	02/11/08 17:32 / sw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-005
Client Sample ID: 802

Report Date: 04/01/08
Collection Date: 01/14/08 11:55
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 00:38 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 00:38 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 00:38 / jlr
Chloroform	14.0	ug/L		0.50		E624	01/22/08 00:38 / jlr
Trihalomethanes, Total	14.0	ug/L		0.50		E624	01/22/08 00:38 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	01/22/08 00:38 / jlr
Surr: Dibromofluoromethane	116	%REC		80-120		E624	01/22/08 00:38 / jlr
Surr: p-Bromofluorobenzene	100	%REC		80-120		E624	01/22/08 00:38 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		E624	01/22/08 00:38 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-005
 Client Sample ID: 802

Report Date: 06/10/08
 Collection Date: 04/07/08 12:05
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	2040	mg/L		1		A2320 B	04/15/08 12:57 / ljl
Calcium	638	mg/L	D	1		E200.7	04/30/08 18:39 / cp
Chloride	192	mg/L		1		A4500-Cl B	04/17/08 16:32 / jl
Magnesium	1010	mg/L	D	1		E200.7	04/30/08 18:39 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:18 / eli-b
Nitrogen, Nitrate+Nitrite as N	158	mg/L	D	0.2		E353.2	04/21/08 10:50 / eli-b
Potassium	8.1	mg/L	D	0.8		E200.7	04/30/08 18:39 / cp
Sodium	386	mg/L	D	1		E200.7	04/30/08 18:39 / cp
Sulfate	3980	mg/L	D	60		A4500-SO4 E	04/17/08 16:50 / ljl
PHYSICAL PROPERTIES							
pH	6.77	s.u.		0.01		A4500-H B	04/14/08 22:29 / dnp
Solids, Total Dissolved TDS @ 180 C	7710	mg/L		10		A2540 C	04/16/08 15:52 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 19:53 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 19:53 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 19:53 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 19:53 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 19:53 / sml
Manganese	0.90	mg/L		0.01		E200.8	04/30/08 19:53 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 19:53 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 19:53 / sml
Uranium	0.143	mg/L		0.0003		E200.8	04/30/08 19:53 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 19:53 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:56 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.3	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08040580-005
Client Sample ID: 802

Report Date: 06/10/08
Collection Date: 04/07/08 12:05
Date Received: 04/11/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-1.8	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	3	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.368	%				Calculation	06/02/08 13:30 / jc
Anions	133	meq/L				Calculation	06/02/08 13:30 / jc
Cations	132	meq/L				Calculation	06/02/08 13:30 / jc
Solids, Total Dissolved Calculated	7940	mg/L				Calculation	06/02/08 13:30 / jc
TDS Balance (0.80 - 1.20)	0.970	dec. %				Calculation	06/02/08 13:30 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 22:55 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 22:55 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 22:55 / jlr
Chloroform	13.7	ug/L		0.50		E624	04/14/08 22:55 / jlr
Trihalomethanes, Total	13.7	ug/L		0.50		E624	04/14/08 22:55 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	04/14/08 22:55 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	04/14/08 22:55 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	04/14/08 22:55 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/14/08 22:55 / jlr

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-005
 Client Sample ID: 802

Revised Date: 07/20/08
 Report Date: 06/10/08
 Collection Date: 04/07/08 12:05
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L	U	1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.3	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / plj
Thorium 230	-1.8	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	3	pCi/L				E907.0	04/18/08 13:30 / dmf

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



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

Well ID:	802	802	802	802	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-005	C08010860-005	C07100328-005	C07070680-005
Bicarbonate as HCO3	mg/L	2040	2160	2260	2280
Calcium	mg/L	638	622	593	651
Chloride	mg/L	192	219	209	169
Magnesium	mg/L	1010	961	923	1010
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	ND(0.05)	0.06
Nitrogen, Nitrate+Nitrite as N	mg/L	158	97	101	106
Potassium	mg/L	8.1	7.6	7.0	7.0
Sodium	mg/L	386	344	348	375
Sulfate	mg/L	3980	3530	3490	3900
pH	s. u.	6.77	6.60	6.57	6.79
Solids, Total Dissolved TDS @ 180 C	mg/L	7710	8170	8080	8050
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	0.90	0.80	0.91	0.79
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	0.143	0.128	0.152	0.153
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)	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	1.0	ND(1.0)	1.1	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4		0.7	
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.3	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	-1.8	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	3			
A/C Balance (± 5)		-0.368	1.32	-0.736	0.332
Anions		133	122	123	131
Cations		132	125	121	132
Solids, Total Dissolved Calculated		7940	7180	7130	7720
TDS Balance (0.80 - 1.20)		0.970	1.14	1.13	1.04
Trihalomethanes, Total		13.7	14.0	13.5	11.9

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-003
 Client Sample ID 803

Report Date: 04/01/08
 Collection Date: 01/14/08 10:33
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1810	mg/L		1		A2320 B	01/21/08 14:28 / bas
Calcium	609	mg/L	D	0.8		E200.7	02/01/08 15:32 / cp
Chloride	178	mg/L	D	4		E200.7	02/01/08 15:32 / cp
Magnesium	664	mg/L	D	0.8		E200.7	02/01/08 15:32 / cp
Nitrogen, Ammonia as N	1.61	mg/L		0.05		A4500-NH3 G	01/22/08 13:49 / jal
Nitrogen, Nitrate+Nitrite as N	47	mg/L	D	2		E353.2	01/23/08 13:23 / jal
Potassium	12.6	mg/L		0.5		E200.7	02/01/08 15:32 / cp
Sodium	260	mg/L	D	5		E200.7	02/01/08 15:32 / cp
Sulfate	2810	mg/L	D	2		E200.7	02/01/08 15:32 / cp
PHYSICAL PROPERTIES							
pH	6.61	s.u.		0.01		A4500-H B	01/19/08 10:20 / gg
Solids, Total Dissolved TDS @ 180 C	6780	mg/L		10		A2540 C	01/21/08 12:43 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 04:53 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 03:58 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 03:58 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 03:58 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 03:58 / ts
Manganese	1.95	mg/L		0.01		E200.8	01/29/08 03:58 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 03:58 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 03:58 / ts
Uranium	0.115	mg/L		0.0003		E200.8	01/29/08 03:58 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 03:58 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 14:43 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:26 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 13:57 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.277	%				Calculation	02/11/08 17:32 / sw
Anions	96.4	meq/L				Calculation	02/11/08 17:32 / sw
Cations	96.9	meq/L				Calculation	02/11/08 17:32 / sw
Solids, Total Dissolved Calculated	5630	mg/L				Calculation	02/11/08 17:32 / sw
TDS Balance (0.80 - 1.20)	1.20	dec. %				Calculation	02/11/08 17:32 / sw

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-003
Client Sample ID: 803

Report Date: 04/01/08
Collection Date: 01/14/08 10:33
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 23:22 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 23:22 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 23:22 / jlr
Chloroform	4.24	ug/L		0.50		E624	01/21/08 23:22 / jlr
Trihalomethanes, Total	4.24	ug/L		0.50		E624	01/21/08 23:22 / jlr
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		E624	01/21/08 23:22 / jlr
Surr: Dibromofluoromethane	114	%REC		80-120		E624	01/21/08 23:22 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	01/21/08 23:22 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/21/08 23:22 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-003
 Client Sample ID: 803

Report Date: 06/10/08
 Collection Date: 04/07/08 10:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1720	mg/L		1		A2320 B	04/15/08 12:31 / ljl
Calcium	678	mg/L	D	1		E200.7	04/30/08 18:32 / cp
Chloride	135	mg/L		1		A4500-Cl B	04/17/08 16:30 / jl
Magnesium	777	mg/L	D	1		E200.7	04/30/08 18:32 / cp
Nitrogen, Ammonia as N	2.0	mg/L	D	0.1		E350.1	04/22/08 14:17 / eli-b
Nitrogen, Nitrate+Nitrite as N	68.1	mg/L		0.1		E353.2	04/19/08 08:39 / eli-b
Potassium	15.2	mg/L	D	0.8		E200.7	04/30/08 18:32 / cp
Sodium	310	mg/L	D	1		E200.7	04/30/08 18:32 / cp
Sulfate	3310	mg/L	D	30		A4500-SO ₄ E	04/17/08 16:38 / ljl
PHYSICAL PROPERTIES							
pH	6.73	s.u.		0.01		A4500-H B	04/14/08 22:26 / dnp
Solids, Total Dissolved TDS @ 180 C	6460	mg/L		10		A2540 C	04/16/08 15:51 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 19:39 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 19:39 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 19:39 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 19:39 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 19:39 / sml
Manganese	2.01	mg/L		0.01		E200.8	04/30/08 19:39 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 19:39 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 19:39 / sml
Uranium	0.118	mg/L		0.0003		E200.8	04/30/08 19:39 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 19:39 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:52 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.1	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	-0.001	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.5	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-003
 Client Sample ID: 803

Report Date: 06/10/08
 Collection Date: 04/07/08 10:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.05	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.87	%				Calculation	06/02/08 13:28 / jc
Anions	106	meq/L				Calculation	06/02/08 13:28 / jc
Cations	112	meq/L				Calculation	06/02/08 13:28 / jc
Solids, Total Dissolved Calculated	6390	mg/L				Calculation	06/02/08 13:28 / jc
TDS Balance (0.80 - 1.20)	1.01	dec. %				Calculation	06/02/08 13:28 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 21:38 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 21:38 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 21:38 / jlr
Chloroform	3.89	ug/L		0.50		E624	04/14/08 21:38 / jlr
Trihalomethanes, Total	3.89	ug/L		0.50		E624	04/14/08 21:38 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	04/14/08 21:38 / jlr
Surr: Dibromofluoromethane	98.0	%REC		80-120		E624	04/14/08 21:38 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		E624	04/14/08 21:38 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		E624	04/14/08 21:38 / 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

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

Well ID:	803	803	803	803	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-003	C08010860-003	C07100328-003	C07070680-003
Bicarbonate as HCO ₃	mg/L	1720	1810	1880	1900
Calcium	mg/L	678	609	635	691
Chloride	mg/L	135	178	169	147
Magnesium	mg/L	777	664	700	773
Nitrogen, Ammonia as N	mg/L	2.0	1.61	1.64	1.35
Nitrogen, Nitrate+Nitrite as N	mg/L	68.1	47	47.7	51
Potassium	mg/L	15.2	12.6	12.9	13.1
Sodium	mg/L	310	260	276	303
Sulfate	mg/L	3310	2810	3080	3360
pH	s. u.	6.73	6.61	6.62	6.82
Solids, Total Dissolved TDS @ 180 C	mg/L	6460	6780	6670	6630
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	2.01	1.95	2.13	1.90
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	0.118	0.115	0.129	0.123
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.1	1.0	1.3	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.6	0.7	
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	-0.001	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.5	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	-0.05	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5			
A/C Balance (± 5)		2.87	0.277	-0.547	1.29
Anions		106	96.4	103	109
Cations		112	96.9	102	112
Solids, Total Dissolved Calculated		6390	5630	6000	6470
TDS Balance (0.80 - 1.20)		1.01	1.20	1.11	1.02
Trihalomethanes, Total		3.89	4.24	3.90	3.02

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-004
 Client Sample ID 808

Report Date: 04/01/08
 Collection Date: 01/14/08 11:15
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1800	mg/L		1		A2320 B	01/21/08 14:41 / bas
Calcium	698	mg/L	D	0.8		E200.7	02/01/08 15:36 / cp
Chloride	191	mg/L	D	4		E200.7	02/01/08 15:36 / cp
Magnesium	620	mg/L	D	0.8		E200.7	02/01/08 15:36 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 13:51 / jal
Nitrogen, Nitrate+Nitrite as N	116	mg/L	D	2		E353.2	01/23/08 13:26 / jal
Potassium	5.6	mg/L		0.5		E200.7	02/01/08 15:36 / cp
Sodium	292	mg/L	D	5		E200.7	02/01/08 15:36 / cp
Sulfate	2590	mg/L	D	2		E200.7	02/01/08 15:36 / cp
PHYSICAL PROPERTIES							
pH	6.56	s.u.		0.01		A4500-H B	01/19/08 10:21 / gg
Solids, Total Dissolved TDS @ 180 C	6650	mg/L		10		A2540 C	01/21/08 12:45 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 05:00 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 04:05 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 04:05 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 04:05 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 04:05 / ts
Manganese	0.66	mg/L		0.01		E200.8	01/29/08 04:05 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 04:05 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 04:05 / ts
Uranium	0.119	mg/L		0.0003		E200.8	01/29/08 04:05 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 04:05 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 14:51 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:28 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 14:58 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.852	%				Calculation	02/11/08 17:32 / sw
Anions	97.1	meq/L				Calculation	02/11/08 17:32 / sw
Cations	98.8	meq/L				Calculation	02/11/08 17:32 / sw
Solids, Total Dissolved Calculated	5800	mg/L				Calculation	02/11/08 17:32 / sw
TDS Balance (0.80 - 1.20)	1.15	dec. %				Calculation	02/11/08 17:32 / sw

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-004
Client Sample ID 808

Report Date: 04/01/08
Collection Date: 01/14/08 11:15
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 23:59 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 23:59 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 23:59 / jlr
Chloroform	7.00	ug/L		0.50		E624	01/21/08 23:59 / jlr
Trihalomethanes, Total	7.00	ug/L		0.50		E624	01/21/08 23:59 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/21/08 23:59 / jlr
Surr: Dibromofluoromethane	109	%REC		80-120		E624	01/21/08 23:59 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/21/08 23:59 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	01/21/08 23:59 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-004
 Client Sample ID: 808

Report Date: 06/10/08
 Collection Date: 04/07/08 11:10
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1690	mg/L		1		A2320 B	04/15/08 12:40 / ljl
Calcium	739	mg/L	D	1		E200.7	04/30/08 18:36 / cp
Chloride	162	mg/L		1		A4500-Cl B	04/17/08 16:30 / jl
Magnesium	679	mg/L	D	1		E200.7	04/30/08 18:36 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	04/17/08 14:48 / eli-b
Nitrogen, Nitrate+Nitrite as N	134	mg/L	D	0.2		E353.2	04/21/08 10:46 / eli-b
Potassium	7.0	mg/L	D	0.8		E200.7	04/30/08 18:36 / cp
Sodium	330	mg/L	D	1		E200.7	04/30/08 18:36 / cp
Sulfate	2840	mg/L	D	30		A4500-SO ₄ E	04/17/08 16:40 / ljl
PHYSICAL PROPERTIES							
pH	6.79	s.u.		0.01		A4500-H B	04/14/08 22:28 / dnp
Solids, Total Dissolved TDS @ 180 C	6210	mg/L		10		A2540 C	04/16/08 15:52 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 19:46 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 19:46 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 19:46 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 19:46 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 19:46 / sml
Manganese	0.66	mg/L		0.01		E200.8	04/30/08 19:46 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 19:46 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 19:46 / sml
Uranium	0.124	mg/L		0.0003		E200.8	04/30/08 19:46 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 19:46 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:54 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.2	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	-0.2	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.08	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.4	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / plj

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08040580-004
Client Sample ID: 808

Report Date: 06/10/08
Collection Date: 04/07/08 11:10
Date Received: 04/11/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.5	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	1	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.10	%				Calculation	06/02/08 13:29 / jc
Anions	101	meq/L				Calculation	06/02/08 13:29 / jc
Cations	107	meq/L				Calculation	06/02/08 13:29 / jc
Solids, Total Dissolved Calculated	6200	mg/L				Calculation	06/02/08 13:29 / jc
TDS Balance (0.80 - 1.20)	1.00	dec. %				Calculation	06/02/08 13:29 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 22:16 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 22:16 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 22:16 / jlr
Chloroform	6.60	ug/L		0.50		E624	04/14/08 22:16 / jlr
Trihalomethanes, Total	6.60	ug/L		0.50		E624	04/14/08 22:16 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	04/14/08 22:16 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	04/14/08 22:16 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	04/14/08 22:16 / jlr
Surr: Toluene-d8	106	%REC		80-120		E624	04/14/08 22:16 / 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.

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

Well ID:	808	808	808	808	
Collection Date:	4/7/2008	1/1/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-004	C08010860-004	C07100328-004	C07070680-004
Bicarbonate as HCO ₃	mg/L	1690	1800	1840	1890
Calcium	mg/L	739	698	681	744
Chloride	mg/L	162	191	187	152
Magnesium	mg/L	679	620	609	674
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	134	116	122	123
Potassium	mg/L	7.0	5.6	5.3	5.0
Sodium	mg/L	330	292	300	313
Sulfate	mg/L	2840	2590	2610	2920
pH	s. u.	6.79	6.56	6.69	6.70
Solids, Total Dissolved TDS @ 180 C	mg/L	6210	6650	6620	6560
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	0.66	0.66	0.69	0.55
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	0.124	0.119	0.128	0.126
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.2	ND(1.0)	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4			
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.08			
Radium 228	pCi/L	0.4	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	0.5	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	1			
A/C Balance (± 5)		3.10	0.852	-0.634	0.727
Anions		101	97.1	98.6	105
Cations		107	98.8	97.3	106
Solids, Total Dissolved Calculated		6200	5800	5840	6300
TDS Balance (0.80 - 1.20)		1.00	1.15	1.13	1.04
Trihalomethanes, Total		6.60	7.00	6.88	6.80

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-008
 Client Sample ID GW-1

Report Date: 04/01/08
 Collection Date: 01/14/08 14:55
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	1630	mg/L		1		A2320 B	01/21/08 16:22 / bas
Calcium	714	mg/L	D	0.8		E200.7	02/01/08 16:08 / cp
Chloride	270	mg/L	D	4		E200.7	02/01/08 16:08 / cp
Magnesium	645	mg/L	D	0.8		E200.7	02/01/08 16:08 / cp
Nitrogen, Ammonia as N	0.46	mg/L		0.05		A4500-NH3 G	01/22/08 14:03 / jal
Nitrogen, Nitrate+Nitrite as N	93	mg/L	D	2		E353.2	01/23/08 13:48 / jal
Potassium	8.1	mg/L		0.5		E200.7	02/01/08 16:08 / cp
Sodium	393	mg/L	D	5		E200.7	02/01/08 16:08 / cp
Sulfate	2870	mg/L	D	2		E200.7	02/01/08 16:08 / cp
PHYSICAL PROPERTIES							
pH	6.68	s.u.		0.01		A4500-H B	01/19/08 10:25 / gg
Solids, Total Dissolved TDS @ 180 C	6800	mg/L		10		A2540 C	01/21/08 12:48 / dd
METALS - TOTAL							
Aluminum	0.1	mg/L		0.1		E200.8	01/30/08 06:15 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 17:01 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:13 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 05:13 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 05:13 / ts
Manganese	0.05	mg/L		0.01		E200.8	01/29/08 05:13 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 06:15 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 05:13 / ts
Uranium	0.0929	mg/L	D	0.0004		E200.8	01/30/08 06:15 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:13 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 15:21 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:49 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 18:59 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.59	%				Calculation	02/11/08 17:33 / sw
Anions	101	meq/L				Calculation	02/11/08 17:33 / sw
Cations	106	meq/L				Calculation	02/11/08 17:33 / sw
Solids, Total Dissolved Calculated	6110	mg/L				Calculation	02/11/08 17:33 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/11/08 17:33 / sw

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-008
Client Sample ID GW-1

Report Date: 04/01/08
Collection Date: 01/14/08 14:55
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 02:32 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 02:32 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 02:32 / jlr
Chloroform	0.90	ug/L		0.50		E624	01/22/08 02:32 / jlr
Trihalomethanes, Total	0.90	ug/L		0.50		E624	01/22/08 02:32 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	01/22/08 02:32 / jlr
Surr: Dibromofluoromethane	108	%REC		80-120		E624	01/22/08 02:32 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/22/08 02:32 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	01/22/08 02:32 / jlr

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-008
 Client Sample ID: GW-1

Report Date: 06/10/08
 Collection Date: 04/07/08 15:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1620	mg/L		1		A2320 B	04/15/08 13:25 / ljl
Calcium	749	mg/L	D	1		E200.7	04/30/08 19:26 / cp
Chloride	224	mg/L		1		A4500-Cl B	04/17/08 16:41 / jl
Magnesium	692	mg/L	D	1		E200.7	04/30/08 19:26 / cp
Nitrogen, Ammonia as N	0.5	mg/L	D	0.1		E350.1	04/22/08 14:20 / eli-b
Nitrogen, Nitrate+Nitrite as N	160	mg/L	D	0.2		E353.2	04/21/08 10:51 / eli-b
Potassium	9.8	mg/L	D	0.8		E200.7	04/30/08 19:26 / cp
Sodium	423	mg/L	D	1		E200.7	04/30/08 19:26 / cp
Sulfate	3180	mg/L	D	60		A4500-SO ₄ E	04/17/08 16:59 / ljl
PHYSICAL PROPERTIES							
pH	7.01	s.u.		0.01		A4500-H B	04/14/08 22:35 / dnp
Solids, Total Dissolved TDS @ 180 C	6440	mg/L		10		A2540 C	04/16/08 15:53 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 20:13 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 20:13 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 20:13 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 20:13 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 20:13 / sml
Manganese	0.05	mg/L		0.01		E200.8	04/30/08 20:13 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 20:13 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 20:13 / sml
Uranium	0.110	mg/L		0.0003		E200.8	04/30/08 20:13 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 20:13 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:11 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.1	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	-4.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	-0.1	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.6	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-008
 Client Sample ID: GW-1

Report Date: 06/10/08
 Collection Date: 04/07/08 15:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.13	%				Calculation	06/02/08 13:31 / jc
Anions	111	meq/L				Calculation	06/02/08 13:31 / jc
Cations	113	meq/L				Calculation	06/02/08 13:31 / jc
Solids, Total Dissolved Calculated	6800	mg/L				Calculation	06/02/08 13:31 / jc
TDS Balance (0.80 - 1.20)	0.950	dec. %				Calculation	06/02/08 13:31 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 00:50 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 00:50 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 00:50 / jlr
Chloroform	1.48	ug/L		0.50		E624	04/15/08 00:50 / jlr
Trihalomethanes, Total	1.48	ug/L		0.50		E624	04/15/08 00:50 / jlr
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		E624	04/15/08 00:50 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	04/15/08 00:50 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	04/15/08 00:50 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		E624	04/15/08 00:50 / jlr

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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

Well ID:	GW-1	GW-1	GW-1	GW-1	
Collection Date:	4/7/2008	1/14/2008	10/2/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-008	C08010860-008	C07100328-008	C07070680-008
Bicarbonate as HCO ₃	mg/L	1620	1630	1660	1640
Calcium	mg/L	749	714	645	733
Chloride	mg/L	224	270	255	207
Magnesium	mg/L	692	645	593	655
Nitrogen, Ammonia as N	mg/L	0.5	0.46	0.36	0.38
Nitrogen, Nitrate+Nitrite as N	mg/L	160	93	96	108
Potassium	mg/L	9.8	8.1	7.7	7.2
Sodium	mg/L	423	393	377	383
Sulfate	mg/L	3180	2870	2720	3070
pH	s. u.	7.01	6.68	6.70	6.98
Solids, Total Dissolved TDS @ 180 C	mg/L	6440	6800	6610	6500
Aluminum	mg/L	ND(0.1)	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	0.05	0.05	0.04	0.03
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	0.110	0.0929	0.101	0.104
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.1	ND(1.0)	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4			
Lead 210	pCi/L	-4.5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2		0	
Radium 226	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	-0.1	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.6			
Thorium 230	pCi/L	0.2	ND(0.2)	1.0	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5		0.8	
A/C Balance (± 5)		1.13	2.59	-0.105	1.43
Anions		111	101	97.8	104
Cations		113	106	97.6	107
Solids, Total Dissolved Calculated		6800	6110	5840	6350
TDS Balance (0.80 - 1.20)		0.950	1.11	1.13	1.02
Trihalomethanes, Total		1.48	0.90	0.84	0.80

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-007
 Client Sample ID: GW-2

Report Date: 04/01/08
 Collection Date: 01/14/08 14:20
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	2330	mg/L		1		A2320 B	01/21/08 15:40 / bas
Calcium	667	mg/L	D	0.8		E200.7	02/01/08 16:05 / cp
Chloride	236	mg/L	D	4		E200.7	02/01/08 16:05 / cp
Magnesium	921	mg/L	D	0.8		E200.7	02/01/08 16:05 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/22/08 14:01 / jal
Nitrogen, Nitrate+Nitrite as N	10	mg/L		0.2		E353.2	01/23/08 13:46 / jal
Potassium	14.3	mg/L		0.5		E200.7	02/01/08 16:05 / cp
Sodium	386	mg/L	D	5		E200.7	02/01/08 16:05 / cp
Sulfate	3720	mg/L	D	2		E200.7	02/01/08 16:05 / cp
PHYSICAL PROPERTIES							
pH	6.59	s.u.		0.01		A4500-H B	01/19/08 10:24 / gg
Solids, Total Dissolved TDS @ 180 C	8180	mg/L		10		A2540 C	01/21/08 12:47 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:07 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 04:39 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 04:39 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 04:39 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 06:07 / sml
Manganese	1.11	mg/L		0.01		E200.8	01/29/08 04:39 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 04:39 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 04:39 / ts
Uranium	0.102	mg/L	D	0.0004		E200.8	01/30/08 06:07 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 04:39 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 15:14 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:47 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.1	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 17:59 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.39	%				Calculation	02/11/08 17:33 / sw
Anions	123	meq/L				Calculation	02/11/08 17:33 / sw
Cations	126	meq/L				Calculation	02/11/08 17:33 / sw
Solids, Total Dissolved Calculated	7130	mg/L				Calculation	02/11/08 17:33 / sw
TDS Balance (0.80 - 1.20)	1.15	dec. %				Calculation	02/11/08 17:33 / sw

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-007
Client Sample ID GW-2

Report Date: 04/01/08
Collection Date: 01/14/08 14:20
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 01:54 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 01:54 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 01:54 / jlr
Chloroform	0.74	ug/L		0.50		E624	01/22/08 01:54 / jlr
Trihalomethanes, Total	0.74	ug/L		0.50		E624	01/22/08 01:54 / jlr
Surr: 1,2-Dichlorobenzene-d4	107	%REC		80-120		E624	01/22/08 01:54 / jlr
Surr: Dibromofluoromethane	112	%REC		80-120		E624	01/22/08 01:54 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/22/08 01:54 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/22/08 01:54 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-007
 Client Sample ID: GW-2

Report Date: 06/10/08
 Collection Date: 04/07/08 14:45
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	2190	mg/L		1		A2320 B	04/15/08 13:16 / ljl
Calcium	705	mg/L	D	1		E200.7	04/30/08 19:22 / cp
Chloride	209	mg/L		1		A4500-Cl B	04/17/08 16:39 / jl
Magnesium	1030	mg/L	D	1		E200.7	04/30/08 19:22 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	04/17/08 14:56 / eli-b
Nitrogen, Nitrate+Nitrite as N	12.6	mg/L		0.1		E353.2	04/19/08 08:44 / eli-b
Potassium	15.8	mg/L	D	0.8		E200.7	04/30/08 19:22 / cp
Sodium	419	mg/L	D	1		E200.7	04/30/08 19:22 / cp
Sulfate	4190	mg/L	D	60		A4500-SO4 E	04/17/08 16:57 / ljl
PHYSICAL PROPERTIES							
pH	6.61	s.u.		0.01		A4500-H B	04/14/08 22:33 / dnp
Solids, Total Dissolved TDS @ 180 C	7750	mg/L		10		A2540 C	04/16/08 15:52 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 20:06 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 20:06 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 20:06 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 20:06 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 20:06 / sml
Manganese	1.22	mg/L		0.01		E200.8	04/30/08 20:06 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 20:06 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 20:06 / sml
Uranium	0.111	mg/L		0.0003		E200.8	04/30/08 20:06 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 20:06 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:09 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	-9	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.2	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.5	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-007
 Client Sample ID: GW-2

Report Date: 06/10/08
 Collection Date: 04/07/08 14:45
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.2	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	2	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.27	%				Calculation	06/02/08 13:31 / jc
Anions	130	meq/L				Calculation	06/02/08 13:31 / jc
Cations	139	meq/L				Calculation	06/02/08 13:31 / jc
Solids, Total Dissolved Calculated	7720	mg/L				Calculation	06/02/08 13:31 / jc
TDS Balance (0.80 - 1.20)	1.00	dec. %				Calculation	06/02/08 13:31 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 00:11 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 00:11 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 00:11 / jlr
Chloroform	1.08	ug/L		0.50		E624	04/15/08 00:11 / jlr
Trihalomethanes, Total	1.08	ug/L		0.50		E624	04/15/08 00:11 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/15/08 00:11 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	04/15/08 00:11 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	04/15/08 00:11 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	04/15/08 00:11 / 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



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

Well ID:	GW-2	GW-2	GW-2	GW-2	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-007	C08010860-007	C07100328-007	C07070680-007
Bicarbonate as HCO ₃	mg/L	2190	2330	2400	2460
Calcium	mg/L	705	667	654	734
Chloride	mg/L	209	236	238	180
Magnesium	mg/L	1030	921	868	922
Nitrogen, Ammonia as N	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	0.07
Nitrogen, Nitrate+Nitrite as N	mg/L	12.6	10.0	4.8	8.5
Potassium	mg/L	15.8	14.3	14.2	13.3
Sodium	mg/L	419	386	382	395
Sulfate	mg/L	4190	3720	3700	3990
pH	s.u.	6.61	6.59	6.54	6.65
Solids, Total Dissolved TDS @ 180 C	mg/L	7750	8180	7990	7580
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	1.22	1.11	1.27	0.98
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	0.111	0.102	0.117	0.118
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)	0.009
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.0	1.1	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.6		
Lead 210	pCi/L	-9	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2		0	
Radium 226	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.5	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	-0.2	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	2			
A/C Balance (± 5)		3.27	1.39	-0.934	0.376
Anions		130	123	123	129
Cations		139	126	121	130
Solids, Total Dissolved Calculated		7720	7130	7060	7500
TDS Balance (0.80 - 1.20)		1.00	1.15	1.13	1.01
Trihalomethanes, Total		1.08	0.74	0.64	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-014
Client Sample ID GW-3

Report Date: 04/01/08
Collection Date: 01/15/08 13:35
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1530	mg/L		1		A2320 B	01/21/08 17:20 / bas
Calcium	849	mg/L	D	0.8		E200.7	02/01/08 16:28 / cp
Chloride	177	mg/L	D	4		E200.7	02/01/08 16:28 / cp
Magnesium	275	mg/L	D	0.8		E200.7	02/01/08 16:28 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/22/08 14:23 / jal
Nitrogen, Nitrate+Nitrite as N	88	mg/L	D	2		E353.2	01/23/08 14:21 / jal
Potassium	9.9	mg/L		0.5		E200.7	02/01/08 16:28 / cp
Sodium	282	mg/L	D	5		E200.7	02/01/08 16:28 / cp
Sulfate	1970	mg/L	D	2		E200.7	02/01/08 16:28 / cp
PHYSICAL PROPERTIES							
pH	6.73	s.u.		0.01		A4500-H B	01/19/08 10:44 / gg
Solids, Total Dissolved TDS @ 180 C	5250	mg/L		10		A2540 C	01/21/08 12:49 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 07:30 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 18:08 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:54 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 05:54 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 07:30 / sml
Manganese	1.42	mg/L		0.01		E200.8	01/29/08 05:54 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 07:30 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 05:54 / ts
Uranium	0.123	mg/L		0.0003		E200.8	01/30/08 07:30 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:54 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 16:54 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 13:02 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 22:09 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/04/08 01:02 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.150	%				Calculation	02/11/08 17:39 / sw
Anions	77.4	meq/L				Calculation	02/11/08 17:39 / sw
Cations	77.6	meq/L				Calculation	02/11/08 17:39 / sw
Solids, Total Dissolved Calculated	4710	mg/L				Calculation	02/11/08 17:39 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/11/08 17:39 / sw

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-014
Client Sample ID GW-3

Report Date: 04/01/08
Collection Date: 01/15/08 13:35
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 06:20 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 06:20 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 06:20 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 06:20 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/22/08 06:20 / jlr
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		E624	01/22/08 06:20 / jlr
Surr: Dibromofluoromethane	107	%REC		80-120		E624	01/22/08 06:20 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/22/08 06:20 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/22/08 06:20 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-014
 Client Sample ID: GW-3

Report Date: 06/10/08
 Collection Date: 04/08/08 12:55
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1450	mg/L		1		A2320 B	04/15/08 14:32 / ljl
Calcium	945	mg/L	D	1		E200.7	04/30/08 20:07 / cp
Chloride	139	mg/L		1		A4500-Cl B	04/17/08 16:49 / jl
Magnesium	311	mg/L	D	1		E200.7	04/30/08 20:07 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:35 / eli-b
Nitrogen, Nitrate+Nitrite as N	143	mg/L	D	0.2		E353.2	04/21/08 10:57 / eli-b
Potassium	10.6	mg/L	D	0.8		E200.7	04/30/08 20:07 / cp
Sodium	318	mg/L	D	1		E200.7	04/30/08 20:07 / cp
Sulfate	2250	mg/L	D	60		A4500-SO4 E	04/17/08 17:18 / ljl
PHYSICAL PROPERTIES							
pH	6.75	s.u.		0.01		A4500-H B	04/14/08 22:59 / dnp
Solids, Total Dissolved TDS @ 180 C	4970	mg/L		10		A2540 C	04/14/08 22:38 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 21:27 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 21:27 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 21:27 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 21:27 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 21:27 / sml
Manganese	1.61	mg/L		0.01		E200.8	04/30/08 21:27 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 21:27 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 21:27 / sml
Uranium	0.130	mg/L		0.0003		E200.8	04/30/08 21:27 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 21:27 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:28 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.1	pCi/L		1.0		E900.1	04/28/08 19:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 19:41 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.1	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-014
 Client Sample ID: GW-3

Report Date: 06/10/08
 Collection Date: 04/08/08 12:55
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.3	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.37	%				Calculation	06/02/08 13:34 / jc
Anions	84.6	meq/L				Calculation	06/02/08 13:34 / jc
Cations	87.0	meq/L				Calculation	06/02/08 13:34 / jc
Solids, Total Dissolved Calculated	5330	mg/L				Calculation	06/02/08 13:34 / jc
TDS Balance (0.80 - 1.20)	0.930	dec. %				Calculation	06/02/08 13:34 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 15:40 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 15:40 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 15:40 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 15:40 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 15:40 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/15/08 15:40 / jlr
Surr: Dibromofluoromethane	97.0	%REC		80-120		E624	04/15/08 15:40 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	04/15/08 15:40 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/15/08 15:40 / 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

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

Well ID:	GW-3	GW-3	GW-3	GW-3	
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/10/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-014	C08010860-014	C07100328-014	C07070680-014
Bicarbonate as HCO ₃	mg/L	1450	1530	1580	1630
Calcium	mg/L	945	849	812	927
Chloride	mg/L	139	177	176	141
Magnesium	mg/L	311	275	267	313
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	ND(0.05)	0.09
Nitrogen, Nitrate+Nitrite as N	mg/L	143	88	94	101
Potassium	mg/L	10.6	9.9	10.0	8.9
Sodium	mg/L	318	282	280	280
Sulfate	mg/L	2250	1970	1970	2280
pH	s.u.	6.75	6.73	6.67	6.67
Solids, Total Dissolved TDS @ 180 C	mg/L	4970	5250	5150	5110
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	1.61	1.42	1.68	1.13
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	0.130	0.123	0.136	0.130
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	2.1	ND(1.0)	1.2	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5		0.7	
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	-0.1	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	-0.3	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5			
A/C Balance (± 5)		1.37	0.150	-2.28	-0.432
Anions		84.6	77.4	78.6	85.2
Cations		87.0	77.6	75.1	84.5
Solids, Total Dissolved Calculated		5330	4710	4710	5210
TDS Balance (0.80 - 1.20)		0.930	1.11	1.09	0.980
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-002
 Client Sample ID: EPA-23

Report Date: 04/01/08
 Collection Date: 01/14/08 10:02
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1230	mg/L		1		A2320 B	01/21/08 14:15 / bas
Calcium	622	mg/L	D	0.8		E200.7	02/01/08 15:29 / cp
Chloride	123	mg/L	D	4		E200.7	02/01/08 15:29 / cp
Magnesium	404	mg/L	D	0.8		E200.7	02/01/08 15:29 / cp
Nitrogen, Ammonia as N	5.67	mg/L		0.05		A4500-NH ₃ G	01/22/08 14:13 / jal
Nitrogen, Nitrate+Nitrite as N	21.2	mg/L	D	0.8		E353.2	01/23/08 13:21 / jal
Potassium	12.3	mg/L		0.5		E200.7	02/01/08 15:29 / cp
Sodium	154	mg/L	D	5		E200.7	02/01/08 15:29 / cp
Sulfate	2200	mg/L	D	2		E200.7	02/01/08 15:29 / cp
PHYSICAL PROPERTIES							
pH	6.62	s.u.		0.01		A4500-H B	01/19/08 10:19 / gg
Solids, Total Dissolved TDS @ 180 C	4910	mg/L		10		A2540 C	01/21/08 12:42 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 04:45 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 03:52 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 03:52 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 03:52 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 03:52 / ts
Manganese	4.29	mg/L		0.01		E200.8	01/29/08 03:52 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 03:52 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 03:52 / ts
Uranium	0.0316	mg/L		0.0003		E200.8	01/29/08 03:52 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 03:52 / ts
METALS - SPECIATED							
Arsenic-III	0.001	mg/L		0.001		A3114 B	01/24/08 14:35 / rw
Selenium-IV	0.001	mg/L		0.001		A3114 B	01/21/08 12:24 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 12:57 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 12:14 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.672	%				Calculation	02/11/08 17:31 / sw
Anions	71.0	meq/L				Calculation	02/11/08 17:31 / sw
Cations	72.0	meq/L				Calculation	02/11/08 17:31 / sw
Solids, Total Dissolved Calculated	4220	mg/L				Calculation	02/11/08 17:31 / sw
TDS Balance (0.80 - 1.20)	1.16	dec. %				Calculation	02/11/08 17:31 / sw

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-002
Client Sample ID EPA-23

Report Date: 04/01/08
Collection Date: 01/14/08 10:02
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 22:44 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 22:44 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 22:44 / jlr
Chloroform	ND	ug/L		0.50		E624	01/21/08 22:44 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/21/08 22:44 / jlr
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		E624	01/21/08 22:44 / jlr
Surr: Dibromofluoromethane	116	%REC		80-120		E624	01/21/08 22:44 / jlr
Surr: p-Bromofluorobenzene	100	%REC		80-120		E624	01/21/08 22:44 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/21/08 22:44 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-002
 Client Sample ID: EPA-23

Report Date: 06/10/08
 Collection Date: 04/07/08 09:55
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1100	mg/L		1		A2320 B	04/15/08 12:22 / ljl
Calcium	683	mg/L	D	1		E200.7	04/30/08 18:22 / cp
Chloride	89	mg/L		1		A4500-Cl B	04/17/08 16:29 / jl
Magnesium	429	mg/L	D	1		E200.7	04/30/08 18:22 / cp
Nitrogen, Ammonia as N	0.29	mg/L		0.05		E350.1	04/22/08 14:13 / eli-b
Nitrogen, Nitrate+Nitrite as N	4.1	mg/L		0.1		E353.2	04/19/08 07:39 / eli-b
Potassium	11.2	mg/L	D	0.8		E200.7	04/30/08 18:22 / cp
Sodium	162	mg/L	D	1		E200.7	04/30/08 18:22 / cp
Sulfate	2430	mg/L	D	30		A4500-SO4 E	04/17/08 16:37 / ljl
PHYSICAL PROPERTIES							
pH	6.84	s.u.		0.01		A4500-H B	04/14/08 22:24 / dnp
Solids, Total Dissolved TDS @ 180 C	4300	mg/L		10		A2540 C	04/16/08 15:51 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 19:32 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 19:32 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 19:32 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 19:32 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 19:32 / sml
Manganese	5.04	mg/L		0.01		E200.8	04/30/08 19:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 19:32 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 19:32 / sml
Uranium	0.0303	mg/L		0.0003		E200.8	04/30/08 19:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 19:32 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 09:49 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.0	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	1	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/06/08 09:46 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/06/08 09:46 / taj
Radium 228	0.3	pCi/L	U			RA-05	05/01/08 10:17 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/01/08 10:17 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/01/08 10:17 / plj

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-002
 Client Sample ID: EPA-23

Report Date: 06/10/08
 Collection Date: 04/07/08:09:55
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.4	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.42	%				Calculation	06/02/08 13:27 / jc
Anions	71.2	meq/L				Calculation	06/02/08 13:27 / jc
Cations	77.8	meq/L				Calculation	06/02/08 13:27 / jc
Solids, Total Dissolved Calculated	4390	mg/L				Calculation	06/02/08 13:27 / jc
TDS Balance (0.80 - 1.20)	0.980	dec. %				Calculation	06/02/08 13:27 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/08 21:00 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/08 21:00 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/08 21:00 / jlr
Chloroform	ND	ug/L		0.50		E624	04/14/08 21:00 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/14/08 21:00 / jlr
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		E624	04/14/08 21:00 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	04/14/08 21:00 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	04/14/08 21:00 / jlr
Surr: Toluene-d8	105	%REC		80-120		E624	04/14/08 21:00 / 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.



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

Well ID:	EPA-23	EPA-23	EPA-23	EPA-23	
Collection Date:	4/7/2008	1/14/2008	10/1/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-002	C08010860-002	C07100328-002	C07070680-002
Bicarbonate as HCO ₃	mg/L	1100	1230	1300	1200
Calcium	mg/L	683	622	608	661
Chloride	mg/L	89	123	108	84
Magnesium	mg/L	429	404	424	417
Nitrogen, Ammonia as N	mg/L	0.29	5.67	5.8	1.99
Nitrogen, Nitrate+Nitrite as N	mg/L	4.1	21.2	22.7	7.7
Potassium	mg/L	11.2	12.3	12.5	10.7
Sodium	mg/L	162	154	162	146
Sulfate	mg/L	2430	2200	2350	2430
pH	s.u.	6.84	6.62	6.76	6.94
Solids, Total Dissolved TDS @ 180 C	mg/L	4300	4910	4850	4630
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	5.04	4.29	4.67	4.59
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	0.0303	0.0316	0.0342	0.0270
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	0.001	ND(0.001)	0.01
Selenium-IV	mg/L	ND(0.001)	0.001	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.0	ND(1.0)	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4			
Lead 210	pCi/L	0.0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	1			
Radium 226	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.3	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	0.4	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
A/C Balance (± 5)		4.42	0.672	-0.935	0.851
Anions		71.2	71.0	74.8	73.1
Cations		77.8	72.0	73.4	74.4
Solids, Total Dissolved Calculated		4390	4220	4400	4380
TDS Balance (0.80 - 1.20)		0.980	1.16	1.10	1.06
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-015
 Client Sample ID EPA-25

Report Date: 04/01/08
 Collection Date: 01/15/08 14:20
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	952	mg/L		1		A2320 B	01/21/08 17:29 / bas
Calcium	736	mg/L	D	0.8		E200.7	02/01/08 16:32 / cp
Chloride	125	mg/L	D	4		E200.7	02/01/08 16:32 / cp
Magnesium	227	mg/L	D	0.8		E200.7	02/01/08 16:32 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/22/08 15:27 / jal
Nitrogen, Nitrate+Nitrite as N	87	mg/L	D	2		E353.2	01/23/08 14:23 / jal
Potassium	9.0	mg/L		0.5		E200.7	02/01/08 16:32 / cp
Sodium	172	mg/L	D	5		E200.7	02/01/08 16:32 / cp
Sulfate	1670	mg/L	D	2		E200.7	02/01/08 16:32 / cp
PHYSICAL PROPERTIES							
pH	7.08	s.u.		0.01		A4500-H B	01/19/08 10:46 / gg
Solids, Total Dissolved TDS @ 180 C	4150	mg/L		10		A2540 C	01/21/08 12:50 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 07:37 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 18:15 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 06:01 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 06:01 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 07:37 / sml
Manganese	2.06	mg/L		0.01		E200.8	01/29/08 06:01 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 07:37 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 06:01 / ts
Uranium	0.103	mg/L		0.0003		E200.8	01/30/08 07:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 06:01 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 17:02 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 13:04 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.2	pCi/L		1.0		E900.1	02/01/08 22:09 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	02/01/08 22:09 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/04/08 02:02 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.52	%				Calculation	02/11/08 17:40 / sw
Anions	60.1	meq/L				Calculation	02/11/08 17:40 / sw
Cations	63.3	meq/L				Calculation	02/11/08 17:40 / sw
Solids, Total Dissolved Calculated	3800	mg/L				Calculation	02/11/08 17:40 / sw
TDS Balance (0.80 - 1.20)	1.09	dec. %				Calculation	02/11/08 17:40 / sw

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-015
Client Sample ID: EPA-25

Report Date: 04/01/08
Collection Date: 01/15/08 14:20
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 19:41 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 19:41 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 19:41 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 19:41 / jlr
Trihalomethanes, Total:	ND	ug/L		0.50		E624	01/22/08 19:41 / jlr
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		E624	01/22/08 19:41 / jlr
Surr: Dibromofluoromethane	103	%REC		80-120		E624	01/22/08 19:41 / jlr
Surr: p-Bromofluorobenzene	92.0	%REC		80-120		E624	01/22/08 19:41 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/22/08 19:41 / jlr

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-015
 Client Sample ID: EPA-25

Report Date: 06/10/08
 Collection Date: 04/08/08 13:45
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	994	mg/L		1		A2320 B	04/15/08 14:56 / ljl
Calcium	803	mg/L	D	1		E200.7	04/30/08 20:10 / cp
Chloride	92	mg/L		1		A4500-Cl B	04/17/08 16:50 / jl
Magnesium	256	mg/L	D	1		E200.7	04/30/08 20:10 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:37 / eli-b
Nitrogen, Nitrate+Nitrite as N	134	mg/L	D	0.2		E353.2	04/21/08 10:58 / eli-b
Potassium	8.2	mg/L	D	0.8		E200.7	04/30/08 20:10 / cp
Sodium	195	mg/L	D	1		E200.7	04/30/08 20:10 / cp
Sulfate	1860	mg/L	D	30		A4500-SO4 E	04/17/08 17:31 / ljl
PHYSICAL PROPERTIES							
pH	7.16	s.u.		0.01		A4500-H B	04/14/08 23:01 / dnp
Solids, Total Dissolved TDS @ 180 C	3890	mg/L		10		A2540 C	04/14/08 22:38 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 21:34 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 21:34 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 21:34 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 21:34 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 21:34 / sml
Manganese	2.32	mg/L		0.01		E200.8	04/30/08 21:34 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 21:34 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 21:34 / sml
Uranium	0.113	mg/L		0.0003		E200.8	04/30/08 21:34 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 21:34 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:35 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.9	pCi/L		1.0		E900.1	04/28/08 19:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	04/28/08 19:41 / crw
Lead 210	-13.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.5	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-015
 Client Sample ID: EPA-25

Report Date: 06/10/08
 Collection Date: 04/08/08 13:45
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.4	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.04	%				Calculation	06/02/08 13:35 / jc
Anions	67.2	meq/L				Calculation	06/02/08 13:35 / jc
Cations	70.0	meq/L				Calculation	06/02/08 13:35 / jc
Solids, Total Dissolved Calculated	4320	mg/L				Calculation	06/02/08 13:35 / jc
TDS Balance (0.80 - 1.20)	0.900	dec. %				Calculation	06/02/08 13:35 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 16:18 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 16:18 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 16:18 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 16:18 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 16:18 / jlr
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		E624	04/15/08 16:18 / jlr
Surr: Dibromofluoromethane	103	%REC		80-120		E624	04/15/08 16:18 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	04/15/08 16:18 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/15/08 16:18 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-015
 Client Sample ID: EPA-25

Revised Date: 07/20/08
 Report Date: 06/10/08
 Collection Date: 04/08/08 13:45
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.9	pCi/L	U	1.0		E900.1	04/28/08 19:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	04/28/08 19:41 / crw
Lead 210	-13.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	-0.5	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / plj
Thorium 230	0.4	pCi/L		0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/18/08 13:30 / dmf

Report: RL - Analyte reporting limit.
 Definitions: 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



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

Well ID:	EPA-25	EPA-25	EPA-25	EPA-25
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/10/2007
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007

Analyte	Units	C08040580-015	C08010860-015	C07100328-015	C07070680-015
Bicarbonate as HCO3	mg/L	994	952	1010	1020
Calcium	mg/L	803	736	679	732
Chloride	mg/L	92	125	120	91
Magnesium	mg/L	256	227	215	245
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	0.08	0.06
Nitrogen, Nitrate+Nitrite as N	mg/L	134	87	90	84
Potassium	mg/L	8.2	9.0	8.8	7.5
Sodium	mg/L	195	172	168	166
Sulfate	mg/L	1860	1670	1650	1640
pH	s. u.	7.16	7.08	7.19	6.80
Solids, Total Dissolved TDS @ 180 C	mg/L	3890	4150	4100	4040
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	2.32	2.06	2.48	1.03
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	0.113	0.103	0.114	0.111
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)	0.01
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.9	1.2	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.3	0.6		
Lead 210	pCi/L	13.5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.5	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	0.4	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
A/C Balance (± 5)		2.04	2.52	-1.04	3.97
Anions		67.2	60.1	60.6	59.3
Cations		70.0	63.3	59.3	64.2
Solids, Total Dissolved Calculated		4320	3800	3730	3760
TDS Balance (0.80 - 1.20)		0.900	1.09	1.10	1.07
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-011
 Client Sample ID: EPA-28

Report Date: 04/01/08
 Collection Date: 01/15/08 10:33
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	752	mg/L		.1		A2320 B	01/21/08 16:48 / bas
Calcium	534	mg/L	D	0.8		E200.7	02/01/08 16:18 / cp
Chloride	148	mg/L	D	4		E200.7	02/01/08 16:18 / cp
Magnesium	485	mg/L	D	0.8		E200.7	02/01/08 16:18 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 14:17 / jal
Nitrogen, Nitrate+Nitrite as N	34.6	mg/L	D	0.8		E353.2	01/23/08 14:01 / jal
Potassium	13.6	mg/L		0.5		E200.7	02/01/08 16:18 / cp
Sodium	215	mg/L	D	5		E200.7	02/01/08 16:18 / cp
Sulfate	2670	mg/L	D	2		E200.7	02/01/08 16:18 / cp
PHYSICAL PROPERTIES							
pH	6.93	s.u.		0.01		A4500-H B	01/19/08 10:29 / gg
Solids, Total Dissolved TDS @ 180 C	5190	mg/L		10		A2540 C	01/21/08 12:49 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:37 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 17:48 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:34 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 05:34 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 05:34 / ts
Manganese	0.58	mg/L		0.01		E200.8	01/29/08 05:34 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 06:37 / sml
Nickel	ND	mg/L		0.05		E200.8	01/29/08 05:34 / ts
Uranium	0.0429	mg/L		0.0003		E200.8	01/30/08 06:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:34 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 16:31 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:55 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	ND	pCi/L		1.0		E900.1	02/01/08 22:09 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	0.6	pCi/L		0.2		E903.0	02/03/08 22:00 / taj
Radium 226 precision (±)	0.3	pCi/L				E903.0	02/03/08 22:00 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.18	%				Calculation	02/11/08 17:34 / sw
Anions	74.5	meq/L				Calculation	02/11/08 17:34 / sw
Cations	76.3	meq/L				Calculation	02/11/08 17:34 / sw
Solids, Total Dissolved Calculated	4590	mg/L				Calculation	02/11/08 17:34 / sw
TDS Balance (0.80 - 1.20)	1.13	dec. %				Calculation	02/11/08 17:34 / sw

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08010860-011
Client Sample ID: EPA-28

Report Date: 04/01/08
Collection Date: 01/15/08 10:33
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 04:26 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 04:26 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 04:26 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 04:26 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/22/08 04:26 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	01/22/08 04:26 / jlr
Surr: Dibromofluoromethane	113	%REC		80-120		E624	01/22/08 04:26 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	01/22/08 04:26 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		E624	01/22/08 04:26 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-012
 Client Sample ID: EPA-28

Report Date: 06/10/08
 Collection Date: 04/08/08 10:00
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	722	mg/L		1		A2320 B	04/15/08 14:16 / ljl
Calcium	578	mg/L	D	1		E200.7	04/30/08 19:43 / cp
Chloride	114	mg/L		1		A4500-Cl B	04/17/08 16:47 / jl
Magnesium	546	mg/L	D	1		E200.7	04/30/08 19:43 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:24 / eli-b
Nitrogen, Nitrate+Nitrite as N	48.5	mg/L	D	0.2		E353.2	04/21/08 10:54 / eli-b
Potassium	13.0	mg/L	D	0.8		E200.7	04/30/08 19:43 / cp
Sodium	244	mg/L	D	1		E200.7	04/30/08 19:43 / cp
Sulfate	2920	mg/L	D	60		A4500-SO ₄ E	04/17/08 17:10 / ljl
PHYSICAL PROPERTIES							
pH	7.08	s.u.		0.01		A4500-H B	04/14/08 22:57 / dnp
Solids, Total Dissolved TDS @ 180 C	4930	mg/L		10		A2540 C	04/14/08 22:37 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 21:14 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 21:14 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 21:14 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 21:14 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 21:14 / sml
Manganese	0.60	mg/L		0.01		E200.8	04/30/08 21:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 21:14 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 21:14 / sml
Uranium	0.0445	mg/L		0.0003		E200.8	04/30/08 21:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 21:14 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:24 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.5	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	-4.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	0.7	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-012
 Client Sample ID: EPA-28

Report Date: 06/10/08
 Collection Date: 04/08/08 10:00
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.1	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.30	%				Calculation	06/02/08 13:33 / jc
Anions	79.3	meq/L				Calculation	06/02/08 13:33 / jc
Cations	84.8	meq/L				Calculation	06/02/08 13:33 / jc
Solids, Total Dissolved Calculated	5000	mg/L				Calculation	06/02/08 13:33 / jc
TDS Balance (0.80 - 1.20)	0.990	dec. %				Calculation	06/02/08 13:33 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 14:23 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 14:23 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 14:23 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 14:23 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 14:23 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	04/15/08 14:23 / jlr
Surr: Dibromofluoromethane	95.0	%REC		80-120		E624	04/15/08 14:23 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	04/15/08 14:23 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/15/08 14:23 / 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

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

Well ID:	EPA-28	EPA-28	EPA-28	EPA-28	
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/10/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-012	C08010860-011	C07100328-011	C07070680-013
Bicarbonate as HCO ₃	mg/L	722	752	795	767
Calcium	mg/L	578	534	506	577
Chloride	mg/L	114	148	141	116
Magnesium	mg/L	546	485	465	521
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	48.5	34.6	36	39
Potassium	mg/L	13.0	13.6	13.3	12.0
Sodium	mg/L	244	215	211	216
Sulfate	mg/L	2920	2670	2600	2930
pH	s.u.	7.08	6.93	6.88	7.08
Solids, Total Dissolved TDS @ 180 C	mg/L	4930	5190	5040	4990
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	0.60	0.58	0.70	0.54
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	0.0445	0.0429	0.0506	0.0496
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)	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	1.5	ND(1.0)	1.2	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4		0.8	
Lead 210	pCi/L	-4.5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.1	0.6	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1	0.3		
Radium 228	pCi/L	0.7	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	-0.1	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.2			
A/C Balance (± 5)		3.30	1.18	-0.387	1.09
Anions		79.3	74.5	73.7	79.7
Cations		84.8	76.3	73.1	81.4
Solids, Total Dissolved Calculated		5000	4590	4490	4930
TDS Balance (0.80 - 1.20)		0.990	1.13	1.12	1.01
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08010860-010
 Client Sample ID: SBL-1

Report Date: 04/01/08
 Collection Date: 01/15/08 09:56
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	454	mg/L		1		A2320 B	01/21/08 16:40 / bas
Calcium	524	mg/L	D	0.8		E200.7	02/01/08 16:15 / cp
Chloride	112	mg/L	D	4		E200.7	02/01/08 16:15 / cp
Magnesium	1190	mg/L	D	0.8		E200.7	02/01/08 16:15 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	01/22/08 14:06 / jal
Nitrogen, Nitrate+Nitrite as N	40	mg/L	D	2		E353.2	01/23/08 13:58 / jal
Potassium	16.6	mg/L		0.5		E200.7	02/01/08 16:15 / cp
Sodium	321	mg/L	D	5		E200.7	02/01/08 16:15 / cp
Sulfate	5400	mg/L	D	20		E200.7	02/01/08 12:48 / cp
PHYSICAL PROPERTIES							
pH	6.97	s.u.		0.01		A4500-H B	01/19/08 10:28 / gg
Solids, Total Dissolved TDS @ 180 C	9470	mg/L		10		A2540 C	01/21/08 12:48 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 06:30 / sml
Beryllium	ND	mg/L		0.01		E200.8	02/04/08 17:41 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 05:27 / ts
Cobalt	0.01	mg/L		0.01		E200.8	01/29/08 05:27 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 05:27 / ts
Manganese	2.69	mg/L		0.01		E200.8	01/29/08 05:27 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/30/08 06:30 / sml
Nickel	0.06	mg/L		0.05		E200.8	01/29/08 05:27 / ts
Uranium	0.0166	mg/L	D	0.0004		E200.8	01/30/08 06:30 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 05:27 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 15:37 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:53 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.7	pCi/L		1.0		E900.1	02/01/08 20:25 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/01/08 20:25 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/24/08 09:00 / dm
Radium 226	ND	pCi/L		0.2		E903.0	02/03/08 21:00 / taj
Radium 228	ND	pCi/L		1.0		RA-05	01/28/08 14:02 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/24/08 16:00 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.76	%				Calculation	02/11/08 17:34 / sw
Anions	126	meq/L				Calculation	02/11/08 17:34 / sw
Cations	138	meq/L				Calculation	02/11/08 17:34 / sw
Solids, Total Dissolved Calculated	7960	mg/L				Calculation	02/11/08 17:34 / sw
TDS Balance (0.80 - 1.20)	1.19	dec. %				Calculation	02/11/08 17:34 / sw

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: Unified Nuclear Corp
Project: Alluvium
Lab ID: C08010860-010
Client Sample ID SBL-1

Report Date: 04/01/08
Collection Date: 01/15/08 09:56
Date Received: 01/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/22/08 03:48 / jlr
Bromoform	ND	ug/L		0.50		E624	01/22/08 03:48 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/22/08 03:48 / jlr
Chloroform	ND	ug/L		0.50		E624	01/22/08 03:48 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/22/08 03:48 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	01/22/08 03:48 / jlr
Surr: Dibromofluoromethane	112	%REC		80-120		E624	01/22/08 03:48 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/22/08 03:48 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/22/08 03:48 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Alluvium
 Lab ID: C08040580-011
 Client Sample ID: SBL-1

Report Date: 06/10/08
 Collection Date: 04/08/08 09:20
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	432	mg/L		1		A2320 B	04/15/08 14:08 / ljl
Calcium	534	mg/L	D	1		E200.7	04/30/08 19:36 / cp
Chloride	82	mg/L		1		A4500-Cl B	04/17/08 16:46 / jl
Magnesium	1200	mg/L	D	1		E200.7	04/30/08 19:36 / cp
Nitrogen, Ammonia as N	ND	mg/L	D	0.1		E350.1	04/22/08 14:23 / eli-b
Nitrogen, Nitrate+Nitrite as N	68.5	mg/L		0.1		E353.2	04/19/08 08:48 / eli-b
Potassium	15.8	mg/L	D	0.8		E200.7	04/30/08 19:36 / cp
Sodium	341	mg/L	D	1		E200.7	04/30/08 19:36 / cp
Sulfate	6080	mg/L	D	60		A4500-SO4 E	04/17/08 17:09 / ljl
PHYSICAL PROPERTIES							
pH	7.09	s.u.		0.01		A4500-H B	04/14/08 22:55 / dnp
Solids, Total Dissolved TDS @ 180 C	8860	mg/L		10		A2540 C	04/14/08 22:37 / dd
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	04/30/08 21:07 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 21:07 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 21:07 / sml
Cobalt	0.02	mg/L		0.01		E200.8	04/30/08 21:07 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 21:07 / sml
Manganese	2.93	mg/L		0.01		E200.8	04/30/08 21:07 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 21:07 / sml
Nickel	0.08	mg/L		0.05		E200.8	04/30/08 21:07 / sml
Uranium	0.0174	mg/L		0.0003		E200.8	04/30/08 21:07 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 21:07 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/24/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 10:17 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L		1.0		E900.1	04/28/08 17:59 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 17:59 / crw
Lead 210	-4.5	pCi/L	U	1.0		E909.0M	04/18/08 11:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/18/08 11:15 / dm
Radium 226	0.3	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 09:41 / taj
Radium 228	0.9	pCi/L	U			RA-05	05/02/08 13:55 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 13:55 / plj
Radium 228 MDC	1.3	pCi/L				RA-05	05/02/08 13:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Alluvium
Lab ID: C08040580-011
Client Sample ID: SBL-1

Report Date: 06/10/08
Collection Date: 04/08/08 09:20
Date Received: 04/11/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.4	pCi/L	U	0.2		E907.0	04/18/08 13:30 / dmf
Thorium 230 precision (±)	1	pCi/L				E907.0	04/18/08 13:30 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.168	%				Calculation	06/02/08 13:33 / jc
Anions	141	meq/L				Calculation	06/02/08 13:33 / jc
Cations	141	meq/L				Calculation	06/02/08 13:33 / jc
Solids, Total Dissolved Calculated	8790	mg/L				Calculation	06/02/08 13:33 / jc
TDS Balance (0.80 - 1.20)	1.01	dec. %				Calculation	06/02/08 13:33 / jc
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 13:45 / jlr
Bromoform	ND	ug/L		0.50		E624	04/15/08 13:45 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 13:45 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/08 13:45 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/15/08 13:45 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/15/08 13:45 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	04/15/08 13:45 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	04/15/08 13:45 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/15/08 13:45 / jlr

Report RL - Analyte reporting limit.

Definitions: 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

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

Well ID:	SBL-1	SBL-1	SBL-1	SBL-1	
Collection Date:	4/8/2008	1/15/2008	10/2/2007	7/9/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	6/10/2008	4/1/2008	11/16/2007	8/27/2007	
Analyte	Units	C08040580-011	C08010860-010	C07100328-010	C07070680-012
Bicarbonate as HCO ₃	mg/L	432	454	429	461
Calcium	mg/L	534	524	470	542
Chloride	mg/L	82	112	102	81
Magnesium	mg/L	1200	1190	988	1090
Nitrogen, Ammonia as N	mg/L	ND(0.1)	ND(0.05)	0.32	0.17
Nitrogen, Nitrate+Nitrite as N	mg/L	68.5	40	49	50
Potassium	mg/L	15.8	16.6	14.0	13.3
Sodium	mg/L	341	321	296	326
Sulfate	mg/L	6080	5400	4960	5740
pH	s. u.	7.09	6.97	6.92	6.93
Solids, Total Dissolved TDS @ 180 C	mg/L	8860	9470	8670	8960
Aluminum	mg/L	0.2	ND(0.1)	0.2	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	0.02	0.01	0.03	0.03
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	2.93	2.69	2.70	2.28
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.08	0.06	0.08	0.10
Uranium	mg/L	0.0174	0.0166	0.0259	0.0192
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)	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	1.6	1.7	1.1	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.7	0.6	
Lead 210	pCi/L	-4.5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.3	ND(0.2)	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1			
Radium 228	pCi/L	0.9	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.3			
Radium 228 precision (±)	pCi/L	0.8			
Thorium 230	pCi/L	-0.4	ND(0.2)	2.0	ND(0.2)
Thorium 230 precision (±)	pCi/L	1		1.1	
A/C Balance (± 5)		0.168	4.76	0.623	-0.646
Anions		141	126	117	133
Cations		141	138	118	131
Solids, Total Dissolved Calculated		8790	7960	7260	8250
TDS Balance (0.80 - 1.20)		1.01	1.19	1.19	1.09
Trihalomethanes, Total		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.**

QUARTERLY SAMPLING
SEMI-ANNUAL GROUND WATER MONITORING REPORT

JANUARY AND APRIL OF 2008

ZONE - 1

515-A

*604

*614

TWQ-142

EPA-2

*EPA-4

*EPA-5

*EPA-7

LEVELS ONLY

TWQ-143

EPA-8

505-A

502-A

501-A

504-A

412

***POINT OF COMPLIANCE WELLS**



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-002
 Client Sample ID: 515-A

Report Date: 04/02/08
 Collection Date: 01/16/08 10:00
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	202	mg/L		1		A2320 B	01/21/08 13:41 / bas
Calcium	454	mg/L	D	0.8		E200.7	02/01/08 15:19 / cp
Chloride	266	mg/L	D	4		E200.7	02/01/08 15:19 / cp
Magnesium	819	mg/L	D	0.8		E200.7	02/01/08 15:19 / cp
Nitrogen, Ammonia as N	6.8	mg/L	D	0.2		A4500-NH3 G	01/22/08 13:45 / jal
Nitrogen, Nitrate+Nitrite as N	64	mg/L	D	2		E353.2	01/23/08 13:03 / jal
Potassium	16.1	mg/L		0.5		E200.7	02/01/08 15:19 / cp
Sodium	444	mg/L	D	5		E200.7	02/01/08 15:19 / cp
Sulfate	4340	mg/L	D	20		E200.7	02/01/08 11:41 / cp
PHYSICAL PROPERTIES							
pH	6.37	s.u.		0.01		A4500-H B	01/19/08 10:13 / gg
Solids, Total Dissolved TDS @ 180 C	7470	mg/L		10		A2540 C	01/21/08 12:40 / dd
METALS - TOTAL							
Aluminum	0.7	mg/L		0.1		E200.8	01/30/08 04:15 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 02:57 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 02:57 / ts
Cobalt	0.05	mg/L		0.01		E200.8	01/29/08 02:57 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 02:57 / ts
Manganese	15.9	mg/L		0.01		E200.8	01/29/08 02:57 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 02:57 / ts
Nickel	0.24	mg/L		0.05		E200.8	01/29/08 02:57 / ts
Uranium	0.0007	mg/L		0.0003		E200.8	01/29/08 02:57 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 02:57 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 11:58 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:15 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	6.6	pCi/L		1.0		E900.1	01/23/08 18:46 / crw
Gross Alpha minus Rn & U Precision (±)	1.2	pCi/L				E900.1	01/23/08 18:46 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/22/08 08:30 / dm
Radium 226	2.0	pCi/L		0.2		E903.0	01/30/08 18:23 / taj
Radium 226 precision (±)	0.5	pCi/L				E903.0	01/30/08 18:23 / taj
Radium 228	2.7	pCi/L		1.0		RA-05	01/25/08 14:53 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	01/25/08 14:53 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/21/08 15:00 / dmf

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-002
 Client Sample ID 515-A

Report Date: 04/02/08
 Collection Date: 01/16/08 10:00
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.64	%				Calculation	02/11/08 17:27 / sw
Anions	106	meq/L				Calculation	02/11/08 17:27 / sw
Cations	112	meq/L				Calculation	02/11/08 17:27 / sw
Solids, Total Dissolved Calculated	6740	mg/L				Calculation	02/11/08 17:27 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/11/08 17:27 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 18:52 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 18:52 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 18:52 / jlr
Chloroform	227	ug/L	D	5.0		E624	01/21/08 16:58 / jlr
Trihalomethanes, Total	227	ug/L		0.50		E624	01/21/08 18:52 / jlr
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		E624	01/21/08 18:52 / jlr
Surr: Dibromofluoromethane	116	%REC		80-120		E624	01/21/08 18:52 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	01/21/08 18:52 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/21/08 18:52 / jlr

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-003
 Client Sample ID 515-A

Report Date: 05/27/08
 Collection Date: 04/09/08 10:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	190	mg/L		1		A2320 B	04/15/08 15:44 / ljl
Calcium	493	mg/L	D	1		E200.7	04/30/08 20:27 / cp
Chloride	235	mg/L		1		A4500-Cl B	04/17/08 16:58 / jl
Magnesium	926	mg/L	D	1		E200.7	04/30/08 20:27 / cp
Nitrogen, Ammonia as N	7.7	mg/L	D	0.1		E350.1	04/24/08 08:02 / eli-b
Nitrogen, Nitrate+Nitrite as N	78.6	mg/L		0.1		E353.2	04/19/08 09:00 / eli-b
Potassium	15.8	mg/L	D	0.8		E200.7	04/30/08 20:27 / cp
Sodium	485	mg/L	D	1		E200.7	04/30/08 20:27 / cp
Sulfate	5050	mg/L	D	60		A4500-SO4 E	04/18/08 14:17 / ljl
PHYSICAL PROPERTIES							
pH	6.37	s.u.		0.01		A4500-H B	04/14/08 21:07 / dd
Solids, Total Dissolved TDS @ 180 C	7450	mg/L		10		A2540 C	04/14/08 22:41 / dd
METALS - TOTAL							
Aluminum	1.1	mg/L		0.1		E200.8	04/30/08 22:28 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 22:28 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 22:28 / sml
Cobalt	0.06	mg/L		0.01		E200.8	04/30/08 22:28 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 22:28 / sml
Manganese	18.0	mg/L		0.01		E200.8	04/30/08 22:28 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 22:28 / sml
Nickel	0.27	mg/L		0.05		E200.8	04/30/08 22:28 / sml
Uranium	0.0009	mg/L		0.0003		E200.8	04/30/08 22:28 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 22:28 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/28/08 12:52 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 11:31 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	8.1	pCi/L		1.0		E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	04/18/08 08:00 / dm
Radium 226	0.5	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	3.0	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	1.4	pCi/L		0.2		E907.0	04/22/08 15:00 / dmf
Thorium 230 precision (±)	2	pCi/L				E907.0	04/22/08 15:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-003
 Client Sample ID: 515-A

Report Date: 05/27/08
 Collection Date: 04/09/08 10:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.54	%				Calculation	05/06/08 14:14 / sw
Anions	121	meq/L				Calculation	05/06/08 14:14 / sw
Cations	124	meq/L				Calculation	05/06/08 14:14 / sw
Solids, Total Dissolved Calculated	7690	mg/L				Calculation	05/06/08 14:14 / sw
TDS Balance (0.80 - 1.20)	0.970	dec. %				Calculation	05/06/08 14:14 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 04:14 / dkh
Bromoform	ND	ug/L		0.50		E624	04/15/08 04:14 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 04:14 / dkh
Chloroform	22.6	ug/L		0.50		E624	04/15/08 04:14 / dkh
Trihalomethanes, Total	22.6	ug/L		0.50		E624	04/15/08 04:14 / dkh
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/15/08 04:14 / dkh
Surr: Dibromofluoromethane	103	%REC		80-120		E624	04/15/08 04:14 / dkh
Surr: p-Bromofluorobenzene	102	%REC		80-120		E624	04/15/08 04:14 / dkh
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/15/08 04:14 / dkh

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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-003E
 Client Sample ID: 515-A

Revised Date: 07/20/08
 Report Date: 05/27/08
 Collection Date: 04/09/08 10:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	8.1	pCi/L			1.0	E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	0.0	pCi/L	U		1.0	E909.0M	04/18/08 08:00 / dm
Lead 210 precision (±)	0.6	pCi/L				E909.0M	04/18/08 08:00 / dm
Radium 226	0.5	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	3.0	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	1.4	pCi/L			0.2	E907.0	04/22/08 15:00 / dmf
Thorium 230 precision (±)	2.4	pCi/L				E907.0	04/22/08 15:00 / dmf

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

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

Well ID:	515-A	515-A	515-A	515-A	
Collection Date:	4/9/2008	1/16/2008	10/3/2007	7/11/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	5/29/2008	4/2/2008	11/19/2007	8/29/2007	
Analyte	Units	C08040582-003	C08010858-002	C07100334-003	C07070616-002
Bicarbonate as HCO ₃	mg/L	190	202	217	216
Calcium	mg/L	493	454	436	492
Chloride	mg/L	235	266	255	240
Magnesium	mg/L	926	819	823	876
Nitrogen, Ammonia as N	mg/L	7.7	6.8	6.2	8
Nitrogen, Nitrate+Nitrite as N	mg/L	78.6	64	61	68
Potassium	mg/L	15.8	16.1	15.9	14.6
Sodium	mg/L	485	444	445	419
Sulfate	mg/L	5050	4340	4440	4880
pH	s.u.	6.37	6.37	5.96	6.02
Solids, Total Dissolved TDS @ 180 C	mg/L	7450	7470	7880	7590
Aluminum	mg/L	1.1	0.7	0.5	0.2
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.06	0.05	0.04	0.05
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	18.0	15.9	16.8	16.2
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.27	0.24	0.21	0.24
Uranium	mg/L	0.0009	0.0007	0.0006	0.0007
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)	0.003
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	8.1	6.6	4.5	1.7
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.1	1.2	0.9	0.5
Lead 210	pCi/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Radium 226	pCi/L	0.5	2.0	1.3	2.5
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2	0.5	0.4	0.7
Radium 228	pCi/L	3.0	2.7	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.1			
Radium 228 precision (±)	pCi/L	0.8	1.0		
Thorium 230	pCi/L	1.4	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	2			
A/C Balance (± 5)	%	1.54	2.64	1.52	0.075
Anions	meq/L	121	106	108	117
Cations	meq/L	124	112	111	117
Solids, Total Dissolved Calculated	mg/L	7690	6740	6800	7350
TDS Balance (0.80 - 1.20)	dec. %	0.970	1.11	1.16	1.03
Trihalomethanes, Total	ug/L	22.6	227	168	157

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-003
 Client Sample ID: 604

Report Date: 04/02/08
 Collection Date: 01/16/08 10:50
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	5	mg/L		1		A2320 B	01/21/08 13:46 / bas
Calcium	435	mg/L	D	0.8		E200.7	02/01/08 15:22 / cp
Chloride	84	mg/L	D	4		E200.7	02/01/08 15:22 / cp
Magnesium	801	mg/L	D	0.8		E200.7	02/01/08 15:22 / cp
Nitrogen, Ammonia as N	0.13	mg/L		0.05		A4500-NH3 G	01/22/08 13:33 / jal
Nitrogen, Nitrate+Nitrite as N	76	mg/L	D	2		E353.2	01/23/08 13:06 / jal
Potassium	16.3	mg/L		0.5		E200.7	02/01/08 15:22 / cp
Sodium	286	mg/L	D	5		E200.7	02/01/08 15:22 / cp
Sulfate	4160	mg/L	D	20		E200.7	02/01/08 11:45 / cp
PHYSICAL PROPERTIES							
pH	5.35	s.u.		0.01		A4500-H B	01/19/08 10:15 / gg
Solids, Total Dissolved TDS @ 180 C	6880	mg/L		10		A2540 C	01/21/08 12:41 / dd
METALS - TOTAL							
Aluminum	5.1	mg/L		0.1		E200.8	01/30/08 04:23 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 03:04 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 03:04 / ts
Cobalt	0.24	mg/L		0.01		E200.8	01/29/08 03:04 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 03:04 / ts
Manganese	9.73	mg/L		0.01		E200.8	01/29/08 03:04 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 03:04 / ts
Nickel	0.29	mg/L		0.05		E200.8	01/29/08 03:04 / ts
Uranium	0.0009	mg/L		0.0003		E200.8	01/29/08 03:04 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 03:04 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 12:06 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 12:17 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.9	pCi/L		1.0		E900.1	02/06/08 19:24 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	02/06/08 19:24 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/22/08 08:30 / dm
Radium 226	2.9	pCi/L		0.2		E903.0	01/30/08 19:27 / taj
Radium 226 precision (±)	0.6	pCi/L				E903.0	01/30/08 19:27 / taj
Radium 228	4.3	pCi/L		1.0		RA-05	01/25/08 14:53 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	01/25/08 14:53 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/21/08 15:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-003
 Client Sample ID 604

Report Date: 04/02/08
 Collection Date: 01/16/08 10:50
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	3.64	%				Calculation	02/11/08 17:27 / sw
Anions	94.6	meq/L				Calculation	02/11/08 17:27 / sw
Cations	102	meq/L				Calculation	02/11/08 17:27 / sw
Solids, Total Dissolved Calculated	6140	mg/L				Calculation	02/11/08 17:27 / sw
TDS Balance (0.80 - 1.20)	1.12	dec. %				Calculation	02/11/08 17:27 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 14:26 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 14:26 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 14:26 / jlr
Chloroform	6.44	ug/L		0.50		E624	01/21/08 14:26 / jlr
Trihalomethanes, Total	6.44	ug/L		0.50		E624	01/21/08 14:26 / jlr
Surr: 1,2-Dichlorobenzene-d4	93.0	%REC		80-120		E624	01/21/08 14:26 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	01/21/08 14:26 / jlr
Surr: p-Bromofluorobenzene	102	%REC		80-120		E624	01/21/08 14:26 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/21/08 14:26 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-002
 Client Sample ID 604

Report Date: 05/27/08
 Collection Date: 04/09/08 09:35
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	3	mg/L		1		A2320 B	04/15/08 15:52 / lji
Calcium	480	mg/L	D	1		E200.7	04/30/08 20:24 / cp
Chloride	57	mg/L		1		A4500-Cl B	04/17/08 16:57 / jl
Magnesium	903	mg/L	D	1		E200.7	04/30/08 20:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	04/23/08 11:50 / eli-b
Nitrogen, Nitrate+Nitrite as N	113	mg/L	D	0.2		E353.2	04/21/08 11:28 / eli-b
Potassium	13.6	mg/L	D	0.8		E200.7	04/30/08 20:24 / cp
Sodium	332	mg/L	D	1		E200.7	04/30/08 20:24 / cp
Sulfate	4780	mg/L	D	60		A4500-SO4 E	04/18/08 14:15 / lji
PHYSICAL PROPERTIES							
pH	5.02	s.u.		0.01		A4500-H B	04/14/08 21:03 / dd
Solids, Total Dissolved TDS @ 180 C	6880	mg/L		10		A2540 C	04/14/08 22:41 / dd
METALS - TOTAL							
Aluminum	5.4	mg/L		0.1		E200.8	04/30/08 22:21 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 22:21 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 22:21 / sml
Cobalt	0.23	mg/L		0.01		E200.8	04/30/08 22:21 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 22:21 / sml
Manganese	10.3	mg/L		0.01		E200.8	04/30/08 22:21 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 22:21 / sml
Nickel	0.29	mg/L		0.05		E200.8	04/30/08 22:21 / sml
Uranium	0.0009	mg/L		0.0003		E200.8	04/30/08 22:21 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 22:21 / sml
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	04/28/08 12:44 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 11:29 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	12.0	pCi/L		1.0		E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	1.3	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	-1.3	pCi/L		1.0		E909.0M	04/18/08 08:00 / dm
Radium 226	1.5	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	5.4	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.9	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	1.1	pCi/L		0.2		E907.0	05/01/08 14:30 / dmf
Thorium 230 precision (±)	2	pCi/L				E907.0	05/01/08 14:30 / dmf

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040582-002
Client Sample ID 604

Report Date: 05/27/08
Collection Date: 04/09/08 09:35
Date Received: 04/11/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.29	%				Calculation	05/06/08 14:14 / sw
Anions	109	meq/L				Calculation	05/06/08 14:14 / sw
Cations	114	meq/L				Calculation	05/06/08 14:14 / sw
Solids, Total Dissolved Calculated	7110	mg/L				Calculation	05/06/08 14:14 / sw
TDS Balance (0.80 - 1.20)	0.970	dec. %				Calculation	05/06/08 14:14 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 02:54 / dkh
Bromoform	ND	ug/L		0.50		E624	04/15/08 02:54 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 02:54 / dkh
Chloroform	6.64	ug/L		0.50		E624	04/15/08 02:54 / dkh
Trihalomethanes, Total	6.64	ug/L		0.50		E624	04/15/08 02:54 / dkh
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	04/15/08 02:54 / dkh
Surr: Dibromofluoromethane	108	%REC		80-120		E624	04/15/08 02:54 / dkh
Surr: p-Bromofluorobenzene	104	%REC		80-120		E624	04/15/08 02:54 / dkh
Surr: Toluene-d8	101	%REC		80-120		E624	04/15/08 02:54 / dkh

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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040582-002E
Client Sample ID: 604

Revised Date: 07/20/08
Report Date: 05/27/08
Collection Date: 04/09/08 09:35
Date Received: 04/11/08
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	12.0	pCi/L		1.0		E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	1.3	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	-1.3	pCi/L	U	1.0		E909.0M	04/18/08 08:00 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	04/18/08 08:00 / dm
Radium 226	1.5	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	5.4	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.9	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	1.1	pCi/L		0.2		E907.0	05/01/08 14:30 / dmf
Thorium 230 precision (±)	1.6	pCi/L				E907.0	05/01/08 14:30 / dmf

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



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

Well ID:	604	604	604	604	
Collection Date:	4/9/2008	1/16/2008	10/3/2007	7/11/2007	
Receive Date:	4/11/2008	1/18/2008	10/5/2007	7/13/2007	
Report Date:	5/29/2008	4/2/2008	11/19/2007	8/29/2007	
Analyte	Units	C08040582-002	C08010858-003	C07100334-004	C07070616-003
Bicarbonate as HCO3	mg/L	3	5	5	5
Calcium	mg/L	480	435	418	470
Chloride	mg/L	57	84	82	61
Magnesium	mg/L	903	801	794	853
Nitrogen, Ammonia as N	mg/L	ND(0.05)	0.13	0.24	0.31
Nitrogen, Nitrate+Nitrite as N	mg/L	113	76	75	78
Potassium	mg/L	13.6	16.3	13.7	12.1
Sodium	mg/L	332	286	287	280
Sulfate	mg/L	4780	4160	4410	4770
pH	s.u.	5.02	5.35	5.11	4.89
Solids, Total Dissolved TDS @ 180 C	mg/L	6880	6880	7160	6900
Aluminum	mg/L	5.4	5.1	5.7	4.6
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	0.23	0.24	0.26	0.25
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	10.3	9.73	10.8	10.2
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.29	0.29	0.29	0.31
Uranium	mg/L	0.0009	0.0009	0.0008	0.0010
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	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	12.0	2.9	6.1	1.8
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.3	1.1	1.0	0.5
Lead 210	pCi/L	1.3	ND(1.0)	ND(1.0)	ND(1.0)
Radium 226	pCi/L	1.5	2.9	1.7	2.8
Radium 226 MDC	pCi/L	0.2	0	0	0
Radium 226 precision (±)	pCi/L	0.3	0.6	0.4	0.7
Radium 228	pCi/L	5.4	4.3	2.9	4.4
Radium 228 MDC	pCi/L	1.1	0	0	0
Radium 228 precision (±)	pCi/L	0.9	1.0	0.9	1.0
Thorium 230	pCi/L	1.1	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	2			
A/C Balance (± 5)	%	2.29	3.64	0.437	0.321
Anions	meq/L	109	94.6	99.6	107
Cations	meq/L	114	102	100	107
Solids, Total Dissolved Calculated	mg/L	7110	6140	6340	6810
TDS Balance (0.80 - 1.20)	dec. %	0.970	1.12	1.13	1.01
Trihalomethanes, Total	ug/L	6.64	6.44	7.68	4.08

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-001
 Client Sample ID 614

Report Date: 04/02/08
 Collection Date: 01/16/08 09:00
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1440	mg/L		1		A2320 B	01/21/08 13:12 / bas
Calcium	584	mg/L	D	0.8		E200.7	02/01/08 15:16 / cp
Chloride	354	mg/L	D	4		E200.7	02/01/08 15:16 / cp
Magnesium	622	mg/L	D	0.8		E200.7	02/01/08 15:16 / cp
Nitrogen, Ammonia as N	67	mg/L	D	1		A4500-NH3 G	01/22/08 13:29 / jal
Nitrogen, Nitrate+Nitrite as N	87	mg/L	D	2		E353.2	01/23/08 13:01 / jal
Potassium	12.2	mg/L		0.5		E200.7	02/01/08 15:16 / cp
Sodium	492	mg/L	D	5		E200.7	02/01/08 15:16 / cp
Sulfate	3010	mg/L	D	2		E200.7	02/01/08 15:16 / cp
PHYSICAL PROPERTIES							
pH	6.54	s.u.		0.01		A4500-H B	01/19/08 10:12 / gg
Solids, Total Dissolved TDS @ 180 C	6220	mg/L		10		A2540 C	01/21/08 12:39 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/30/08 04:08 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/29/08 02:50 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/29/08 02:50 / ts
Cobalt	ND	mg/L		0.01		E200.8	01/29/08 02:50 / ts
Lead	ND	mg/L		0.05		E200.8	01/29/08 02:50 / ts
Manganese	0.48	mg/L		0.01		E200.8	01/29/08 02:50 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 02:50 / ts
Nickel	ND	mg/L		0.05		E200.8	01/29/08 02:50 / ts
Uranium	0.0540	mg/L		0.0003		E200.8	01/29/08 02:50 / ts
Vanadium	ND	mg/L		0.1		E200.8	01/29/08 02:50 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 11:50 / rw
Selenium-IV	0.002	mg/L		0.001		A3114 B	01/21/08 12:13 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	3.8	pCi/L		1.0		E900.1	01/23/08 18:46 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	01/23/08 18:46 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/22/08 08:30 / dm
Radium 226	1.6	pCi/L		0.2		E903.0	01/30/08 18:23 / taj
Radium 226 precision (±)	0.4	pCi/L				E903.0	01/30/08 18:23 / taj
Radium 228	2.3	pCi/L		1.0		RA-05	01/25/08 14:52 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	01/25/08 14:52 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/21/08 15:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08010858-001
 Client Sample ID 614

Report Date: 04/02/08
 Collection Date: 01/16/08 09:00
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.16	%				Calculation	02/11/08 17:26 / sw
Anions	102	meq/L				Calculation	02/11/08 17:26 / sw
Cations	107	meq/L				Calculation	02/11/08 17:26 / sw
Solids, Total Dissolved Calculated	6160	mg/L				Calculation	02/11/08 17:26 / sw
TDS Balance (0.80 - 1.20)	1.01	dec. %				Calculation	02/11/08 17:26 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 18:14 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 18:14 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 18:14 / jlr
Chloroform	137	ug/L	D	5.0		E624	01/21/08 16:21 / jlr
Trihalomethanes, Total	137	ug/L		0.50		E624	01/21/08 18:14 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	01/21/08 18:14 / jlr
Surr: Dibromofluoromethane	114	%REC		80-120		E624	01/21/08 18:14 / jlr
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		E624	01/21/08 18:14 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/21/08 18:14 / jlr

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum-contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-001
 Client Sample ID 614

Report Date: 05/27/08
 Collection Date: 04/09/08 08:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	1380	mg/L		1		A2320 B	04/15/08 15:16 / ljl
Calcium	619	mg/L	D	1		E200.7	04/30/08 20:20 / cp
Chloride	309	mg/L		1		A4500-Cl B	04/17/08 16:56 / jl
Magnesium	678	mg/L	D	1		E200.7	04/30/08 20:20 / cp
Nitrogen, Ammonia as N	68.6	mg/L	D	0.4		E350.1	04/25/08 10:57 / eli-b
Nitrogen, Nitrate+Nitrite as N	147	mg/L	D	0.2		E353.2	04/21/08 11:26 / eli-b
Potassium	12.0	mg/L	D	0.8		E200.7	04/30/08 20:20 / cp
Sodium	517	mg/L	D	1		E200.7	04/30/08 20:20 / cp
Sulfate	3360	mg/L	D	60		A4500-SO ₄ E	04/18/08 14:14 / ljl
PHYSICAL PROPERTIES							
pH	7.18	s.u.		0.01		A4500-H B	04/14/08 21:02 / dd
Solids, Total Dissolved TDS @ 180 C	6430	mg/L		10		A2540 C	04/14/08 22:41 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/30/08 22:15 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/30/08 22:15 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/30/08 22:15 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/30/08 22:15 / sml
Lead	ND	mg/L		0.05		E200.8	04/30/08 22:15 / sml
Manganese	0.48	mg/L		0.01		E200.8	04/30/08 22:15 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/30/08 22:15 / sml
Nickel	ND	mg/L		0.05		E200.8	04/30/08 22:15 / sml
Uranium	0.0512	mg/L		0.0003		E200.8	04/30/08 22:15 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/30/08 22:15 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	04/28/08 12:37 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 11:19 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.6	pCi/L		1.0		E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	04/18/08 08:00 / dm
Radium 226	1.1	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	2.2	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	-0.5	pCi/L	U	0.2		E907.0	04/22/08 15:00 / dmf
Thorium 230 precision (±)	2	pCi/L				E907.0	04/22/08 15:00 / dmf

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-001
 Client Sample ID 614

Report Date: 05/27/08
 Collection Date: 04/09/08 08:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.12	%				Calculation	05/06/08 14:13 / sw
Anions	112	meq/L				Calculation	05/06/08 14:13 / sw
Cations	114	meq/L				Calculation	05/06/08 14:13 / sw
Solids, Total Dissolved Calculated	6850	mg/L				Calculation	05/06/08 14:13 / sw
TDS Balance (0.80 - 1.20)	0.940	dec. %				Calculation	05/06/08 14:13 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 01:33 / dkh
Bromoform	ND	ug/L		0.50		E624	04/15/08 01:33 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 01:33 / dkh
Chloroform	210	ug/L	D	5.0		E624	04/15/08 02:14 / dkh
Trihalomethanes, Total	210	ug/L		0.50		E624	04/15/08 01:33 / dkh
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	04/15/08 01:33 / dkh
Surr: Dibromofluoromethane	109	%REC		80-120		E624	04/15/08 01:33 / dkh
Surr: p-Bromofluorobenzene	103	%REC		80-120		E624	04/15/08 01:33 / dkh
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/15/08 01:33 / dkh

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.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040582-001E
 Client Sample ID: 614

Revised Date: 07/20/08
 Report Date: 05/27/08
 Collection Date: 04/09/08 08:30
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.6	pCi/L		1.0		E900.1	04/17/08 13:47 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	04/17/08 13:47 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 08:00 / dm
Lead 210 precision (±)	1.1	pCi/L				E909.0M	04/18/08 08:00 / dm
Radium 226	1.1	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/07/08 10:09 / trs
Radium 228	2.2	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 precision (±)	0.8	pCi/L				RA-05	05/02/08 09:02 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	05/02/08 09:02 / plj
Thorium 230	-0.5	pCi/L	U	0.2		E907.0	04/22/08 15:00 / dmf
Thorium 230 precision (±)	1.6	pCi/L				E907.0	04/22/08 15:00 / dmf

Report: RL - Analyte reporting limit.
 Definitions: 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

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 1 Monitor Wells					
Well ID:		614	614	614	614
Collection Date:		4/9/2008	1/16/2008	10/3/2007	7/11/2007
Receive Date:		4/11/2008	1/18/2008	10/5/2007	7/13/2007
Report Date:		5/29/2008	4/2/2008	11/19/2007	8/29/2007
Analyte	Units	C08040582-001	C08010858-001	C07100334-002	C07070616-001
Bicarbonate as HCO ₃	mg/L	1380	1440	1520	1450
Calcium	mg/L	619	584	540	605
Chloride	mg/L	309	354	378	310
Magnesium	mg/L	678	622	582	626
Nitrogen, Ammonia as N	mg/L	68.6	67	72.3	52
Nitrogen, Nitrate+Nitrite as N	mg/L	147	87	78	82
Potassium	mg/L	12.0	12.2	11.9	10.6
Sodium	mg/L	517	492	455	436
Sulfate	mg/L	3360	3010	2910	3150
pH	s.u.	7.18	6.54	6.87	6.98
Solids, Total Dissolved TDS @ 180 C	mg/L	6430	6220	6490	6280
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	0.48	0.48	0.49	0.43
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	0.0512	0.0540	0.0508	0.0492
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)	0.005
Selenium-IV	mg/L	ND(0.001)	0.002	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	5.6	3.8	2.1	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.9	0.9	0.7	
Lead 210	pCi/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Radium 226	pCi/L	1.1	1.6	0.7	1.3
Radium 226 MDC	pCi/L	0.2	0	0	0
Radium 226 precision (±)	pCi/L	0.2	0.4	0.3	0.5
Radium 228	pCi/L	2.2	2.3	2.0	ND(1.0)
Radium 228 MDC	pCi/L	1.1	0	0	0
Radium 228 precision (±)	pCi/L	0.8	1.0	0.8	
Thorium 230	pCi/L	0.5	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	2			
A/C Balance (± 5)		1.12	2.16	-0.767	0.390
Anions		112	102	102	104
Cations		114	107	100	105
Solids, Total Dissolved Calculated		6850	6160	5970	6230
TDS Balance (0.80 - 1.20)		0.940	1.01	1.09	1.01
Trihalomethanes, Total		210	137	182	83.2

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-006
 Client Sample ID TWQ-142

Report Date: 04/03/08
 Collection Date: 01/22/08 13:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	257	mg/L		1		A2320 B	01/28/08 20:02 / bas
Calcium	34.9	mg/L		0.5		E200.7	02/13/08 21:12 / cp
Chloride	23	mg/L	D	4		E200.7	02/13/08 16:55 / cp
Magnesium	16.7	mg/L		0.5		E200.7	02/13/08 21:12 / cp
Nitrogen, Ammonia as N	0.14	mg/L		0.05		A4500-NH3 G	01/28/08 11:52 / jal
Nitrogen, Nitrate+Nitrite as N	0.3	mg/L		0.1		E353.2	01/29/08 11:57 / jal
Potassium	3.9	mg/L		0.5		E200.7	02/13/08 21:12 / cp
Sodium	320	mg/L		0.5		E200.7	02/13/08 21:12 / cp
Sulfate	563	mg/L	D	2		E200.7	02/13/08 16:55 / cp
PHYSICAL PROPERTIES							
pH	7.56	s.u.		0.01		A4500-H B	01/28/08 15:23 / bas
Solids, Total Dissolved TDS @ 180 C	1080	mg/L		10		A2540 C	01/28/08 15:08 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/09/08 21:54 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/09/08 21:54 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/09/08 21:54 / ts
Cobalt	ND	mg/L		0.01		E200.8	02/09/08 21:54 / ts
Lead	ND	mg/L		0.05		E200.8	02/09/08 21:54 / ts
Manganese	0.05	mg/L		0.01		E200.8	02/09/08 21:54 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/09/08 21:54 / ts
Nickel	ND	mg/L		0.05		E200.8	02/09/08 21:54 / ts
Uranium	0.0005	mg/L		0.0003		E200.8	02/09/08 21:54 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/09/08 21:54 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:45 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/28/08 16:05 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	3.6	pCi/L		1.0		E900.1	02/06/08 17:41 / crw
Gross Alpha minus Rn & U Precision (±)	1.8	pCi/L				E900.1	02/06/08 17:41 / crw
Lead 210	6.1	pCi/L		1.0		E909.0M	01/30/08 09:45 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/30/08 09:45 / dm
Radium 226	0.9	pCi/L		0.2		E903.0	02/06/08 09:54 / taj
Radium 226 precision (±)	0.5	pCi/L				E903.0	02/06/08 09:54 / taj
Radium 228	ND	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 14:15 / dmf

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-006
 Client Sample ID: TWQ-142

Report Date: 04/03/08
 Collection Date: 01/22/08 13:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.68	%				Calculation	02/19/08 16:31 / sw
Anions	16.6	meq/L				Calculation	02/19/08 16:31 / sw
Cations	17.2	meq/L				Calculation	02/19/08 16:31 / sw
Solids, Total Dissolved Calculated	1090	mg/L				Calculation	02/19/08 16:31 / sw
TDS Balance (0.80 - 1.20)	0.990	dec. %				Calculation	02/19/08 16:31 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 18:12 / dkh
Bromoform	ND	ug/L		0.50		E624	01/30/08 18:12 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 18:12 / dkh
Chloroform	ND	ug/L		0.50		E624	01/30/08 18:12 / dkh
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 18:12 / dkh
Surr: 1,2-Dichlorobenzene-d4	108	%REC		80-120		E624	01/30/08 18:12 / dkh
Surr: Dibromofluoromethane	111	%REC		80-120		E624	01/30/08 18:12 / dkh
Surr: p-Bromofluorobenzene	110	%REC		80-120		E624	01/30/08 18:12 / dkh
Surr: Toluene-d8	97.0	%REC		80-120		E624	01/30/08 18:12 / dkh

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040890-001
 Client Sample ID: TWQ-142

Report Date: 06/09/08
 Collection Date: 04/16/08 08:30
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	250	mg/L		1		A2320 B	04/24/08 12:03 / ljl
Calcium	38.9	mg/L		0.5		E200.7	05/08/08 18:14 / cp
Chloride	15	mg/L		1		A4500-Cl B	04/28/08 15:05 / ljl
Magnesium	19.0	mg/L		0.5		E200.7	05/08/08 18:14 / cp
Nitrogen, Ammonia as N	0.18	mg/L		0.05		E350.1	04/24/08 10:16 / eli-b
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	04/28/08 11:39 / eli-b
Potassium	3.5	mg/L		0.5		E200.7	05/08/08 18:14 / cp
Sodium	346	mg/L	D	1		E200.7	05/08/08 18:14 / cp
Sulfate	617	mg/L	D	10		A4500-SO4 E	04/24/08 13:24 / jal
PHYSICAL PROPERTIES							
pH	7.50	s.u.		0.01		A4500-H B	04/22/08 16:07 / dd
Solids, Total Dissolved TDS @ 180 C	1060	mg/L		10		A2540 C	04/21/08 15:37 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.7	05/08/08 18:14 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 18:14 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 20:06 / sml
Cobalt	ND	mg/L		0.01		E200.7	05/08/08 18:14 / cp
Lead	ND	mg/L		0.05		E200.7	05/08/08 18:14 / cp
Manganese	0.05	mg/L		0.01		E200.7	05/08/08 18:14 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 18:14 / cp
Nickel	ND	mg/L		0.05		E200.7	05/08/08 18:14 / cp
Uranium	0.0004	mg/L		0.0003		E200.8	05/09/08 20:06 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 18:14 / cp
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	04/28/08 13:07 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/23/08 15:55 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.5	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-0.8	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	0.7	pCi/L	U			RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.6	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-001
Client Sample ID: TWQ-142

Report Date: 06/09/08
Collection Date: 04/16/08 08:30
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/21/08 22:06 / jlr
Bromoform	ND	ug/L		0.50		E624	04/21/08 22:06 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/21/08 22:06 / jlr
Chloroform	ND	ug/L		0.50		E624	04/21/08 22:06 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/21/08 22:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	04/21/08 22:06 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	04/21/08 22:06 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		E624	04/21/08 22:06 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		E624	04/21/08 22:06 / jlr

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-001
Client Sample ID: TWQ-142

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/16/08 08:30
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.5	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-0.8	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	1.9	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	0.1	pCi/L	U			E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	0.7	pCi/L	U			RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.6	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Thorium 230	0.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf

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.

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

Well ID:	TWQ-142	TWQ-142	TWQ-142	TWQ-142	
Collection Date:	4/16/2008	1/22/2008	10/9/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/3/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040890-001	C08011079-006	C07100722-005	C07070944-006
Bicarbonate as HCO ₃	mg/L	250	257	250	259
Calcium	mg/L	38.9	34.9	33.9	33.7
Chloride	mg/L	15	23	16	17
Magnesium	mg/L	19.0	16.7	17.0	16.9
Nitrogen, Ammonia as N	mg/L	0.18	0.14	0.15	0.17
Nitrogen, Nitrate+Nitrite as N	mg/L	0.1	0.3	0.3	0.2
Potassium	mg/L	3.5	3.9	3.5	3.5
Sodium	mg/L	346	320	305	322
Sulfate	mg/L	617	563	570	603
pH	s.u.	7.50	7.56	7.53	7.42
Solids, Total Dissolved TDS @ 180 C	mg/L	1060	1080	1090	1070
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	0.05	0.05	0.03	0.02
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	0.0004	0.0005	ND(0.0003)	ND(0.0003)
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	ND(0.001)	0.001	0.002
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.5	3.6	ND(1.0)	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	1.8		
Lead 210	pCi/L	-0.8	6.1	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.6		
Radium 226	pCi/L	0.1	0.9	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1	0.5		
Radium 228	pCi/L	0.7	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.0			
Radium 228 precision (±)	pCi/L	0.6			
Thorium 230	pCi/L	0.3	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-004
 Client Sample ID EPA-2

Report Date: 04/03/08
 Collection Date: 01/21/08 12:40
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	291	mg/L		1		A2320 B	01/28/08 19:47 / bas
Calcium	333	mg/L	D	0.8		E200.7	02/13/08 16:49 / cp
Chloride	31	mg/L	D	4		E200.7	02/13/08 16:49 / cp
Magnesium	145	mg/L		0.5		E200.7	02/13/08 21:05 / cp
Nitrogen, Ammonia as N	0.37	mg/L		0.05		A4500-NH3 G	01/28/08 11:48 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 11:52 / jal
Potassium	6.9	mg/L		0.5		E200.7	02/13/08 21:05 / cp
Sodium	192	mg/L		0.5		E200.7	02/13/08 21:05 / cp
Sulfate	1480	mg/L	D	2		E200.7	02/13/08 16:49 / cp
PHYSICAL PROPERTIES							
pH	6.99	s.u.		0.01		A4500-H B	01/28/08 15:21 / bas
Solids, Total Dissolved TDS @ 180 C	2580	mg/L		10		A2540 C	01/28/08 15:07 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/09/08 21:40 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/09/08 21:40 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/09/08 21:40 / ts
Cobalt	ND	mg/L		0.01		E200.8	02/09/08 21:40 / ts
Lead	ND	mg/L		0.05		E200.8	02/09/08 21:40 / ts
Manganese	1.21	mg/L		0.01		E200.8	02/09/08 21:40 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/09/08 21:40 / ts
Nickel	ND	mg/L		0.05		E200.8	02/09/08 21:40 / ts
Uranium	0.0017	mg/L		0.0003		E200.8	02/09/08 21:40 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/09/08 21:40 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:41 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/28/08 16:01 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L		1.0		E900.1	02/06/08 17:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/06/08 17:41 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:45 / dm
Radium 226	1.6	pCi/L		0.2		E903.0	02/06/08 09:54 / taj
Radium 226 precision (±)	0.5	pCi/L				E903.0	02/06/08 09:54 / taj
Radium 228	ND	pCi/L		1.0		RA-05	02/01/08 11:44 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 14:15 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL --Quality-control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-004
 Client Sample ID: EPA-2

Report Date: 04/03/08
 Collection Date: 01/21/08 12:40
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.863	%				Calculation	02/19/08 16:30 / sw
Anions	36.6	meq/L				Calculation	02/19/08 16:30 / sw
Cations	37.2	meq/L				Calculation	02/19/08 16:30 / sw
Solids, Total Dissolved Calculated	2340	mg/L				Calculation	02/19/08 16:30 / sw
TDS Balance (0.80 - 1.20)	1.10	dec. %				Calculation	02/19/08 16:30 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 16:52 / dkh
Bromoform	ND	ug/L		0.50		E624	01/30/08 16:52 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 16:52 / dkh
Chloroform	ND	ug/L		0.50		E624	01/30/08 16:52 / dkh
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 16:52 / dkh
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	01/30/08 16:52 / dkh
Surr: Dibromofluoromethane	102	%REC		80-120		E624	01/30/08 16:52 / dkh
Surr: p-Bromofluorobenzene	110	%REC		80-120		E624	01/30/08 16:52 / dkh
Surr: Toluene-d8	100	%REC		80-120		E624	01/30/08 16:52 / dkh

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040890-002
 Client Sample ID: EPA-2

Report Date: 06/09/08
 Collection Date: 04/14/08 11:15
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	335	mg/L		1		A2320 B	04/24/08 12:10 / ljl
Calcium	369	mg/L		0.5		E200.7	05/08/08 18:18 / cp
Chloride	18	mg/L		1		A4500-Cl B	04/28/08 15:09 / ljl
Magnesium	153	mg/L		0.5		E200.7	05/08/08 18:18 / cp
Nitrogen, Ammonia as N	0.36	mg/L		0.05		E350.1	04/24/08 10:17 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:40 / eli-b
Potassium	6.1	mg/L		0.5		E200.7	05/08/08 18:18 / cp
Sodium	198	mg/L	D	3		E200.7	05/08/08 18:18 / cp
Sulfate	1550	mg/L	D	10		A4500-SO ₄ E	04/24/08 13:26 / jal
PHYSICAL PROPERTIES							
pH	7.16	s.u.		0.01		A4500-H B	04/22/08 16:12 / dd
Solids, Total Dissolved TDS @ 180 C	2520	mg/L		10		A2540 C	04/21/08 15:38 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.7	05/08/08 18:18 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 18:18 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 20:13 / sml
Cobalt	ND	mg/L		0.01		E200.8	05/16/08 14:07 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 20:13 / sml
Manganese	1.28	mg/L		0.01		E200.7	05/08/08 18:18 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 18:18 / cp
Nickel	ND	mg/L		0.05		E200.8	05/16/08 14:07 / sml
Uranium	0.0013	mg/L		0.0003		E200.8	05/09/08 20:13 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 18:18 / cp
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	04/28/08 13:38 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/23/08 15:58 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.4	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	3.1	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	2.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-002
Client Sample ID: EPA-2

Report Date: 06/09/08
Collection Date: 04/14/08 11:15
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.7	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/21/08 22:44 / jlr
Bromoform	ND	ug/L		0.50		E624	04/21/08 22:44 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/21/08 22:44 / jlr
Chloroform	ND	ug/L		0.50		E624	04/21/08 22:44 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/21/08 22:44 / jlr
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		E624	04/21/08 22:44 / jlr
Surr: Dibromofluoromethane	112	%REC		80-120		E624	04/21/08 22:44 / jlr
Surr: p-Bromofluorobenzene	90.0	%REC		80-120		E624	04/21/08 22:44 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	04/21/08 22:44 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040890-002
 Client Sample ID: EPA-2

Revised Date: 07/20/08
 Report Date: 06/09/08
 Collection Date: 04/14/08 11:15
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.4	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-3.1	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.1	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	2.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Thorium 230	0.7	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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:	4/14/2008	1/21/2008	10/8/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/3/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040890-002	C08011079-004	C07100722-003	C07070944-004
Bicarbonate as HCO ₃	mg/L	335	291	287	340
Calcium	mg/L	369	333	344	352
Chloride	mg/L	18	31	20	20
Magnesium	mg/L	153	145	159	159
Nitrogen, Ammonia as N	mg/L	0.36	0.37	0.33	0.35
Nitrogen, Nitrate+ Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	6.1	6.9	6.1	5.9
Sodium	mg/L	198	192	185	186
Sulfate	mg/L	1550	1480	1490	1440
pH	s.u.	7.16	6.99	7.39	7.10
Solids, Total Dissolved TDS @ 180 C	mg/L	2520	2580	2600	2540
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	1.28	1.21	1.42	1.14
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	0.0013	0.0017	0.0012	0.0016
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	ND(0.001)	ND(0.001)	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	2.4	1.6	1.7	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.7	0.6	
Lead 210	pCi/L	3.1	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	1.1	1.6	1.1	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2	0.5	0.5	
Radium 228	pCi/L	2.7	ND(1.0)	ND(1.0)	1.4
Radium 228 MDC	pCi/L	1.0			
Radium 228 precision (±)	pCi/L	0.7			0.9
Thorium 230	pCi/L	0.7	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.9			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	0.91	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-001
 Client Sample ID: EPA-4

Report Date: 04/03/08
 Collection Date: 01/21/08 09:17
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	174	mg/L		1		A2320 B	01/28/08 19:27 / bas
Calcium	533	mg/L	D	0.8		E200.7	02/13/08 16:39 / cp
Chloride	44	mg/L	D	4		E200.7	02/13/08 16:39 / cp
Magnesium	359	mg/L	D	0.8		E200.7	02/13/08 16:39 / cp
Nitrogen, Ammonia as N	0.56	mg/L		0.05		A4500-NH ₃ G	01/28/08 11:38 / jal
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	01/29/08 11:37 / jal
Potassium	8.5	mg/L		0.5		E200.7	02/13/08 20:36 / cp
Sodium	140	mg/L		0.5		E200.7	02/13/08 20:36 / cp
Sulfate	2820	mg/L	D	2		E200.7	02/13/08 16:39 / cp
PHYSICAL PROPERTIES							
pH	7.07	s.u.	H	0.01		A4500-H B	01/29/08 11:42 / bas
Solids, Total Dissolved TDS @ 180 C	4250	mg/L		10		A2540 C	01/28/08 15:04 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/09/08 21:20 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/09/08 21:20 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/09/08 21:20 / ts
Cobalt	ND	mg/L		0.01		E200.8	02/09/08 21:20 / ts
Lead	ND	mg/L		0.05		E200.8	02/09/08 21:20 / ts
Manganese	3.46	mg/L		0.01		E200.8	02/09/08 21:20 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/09/08 21:20 / ts
Nickel	ND	mg/L		0.05		E200.8	02/09/08 21:20 / ts
Uranium	0.0005	mg/L		0.0003		E200.8	02/09/08 21:20 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/09/08 21:20 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:22 / rw
Selenium-IV	0.002	mg/L		0.001		A3114 B	01/28/08 15:55 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.5	pCi/L		1.0		E900.1	02/06/08 17:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	02/06/08 17:41 / crw
Lead 210	4.4	pCi/L		1.0		E909.0M	01/30/08 09:45 / dm
Lead 210 precision (±)	1.4	pCi/L				E909.0M	01/30/08 09:45 / dm
Radium 226	1.7	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	0.4	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	ND	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 14:15 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-001
 Client Sample ID: EPA-4

Report Date: 04/03/08
 Collection Date: 01/21/08 09:17
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-0.100	%				Calculation	02/19/08 16:29 / sw
Anions	62.9	meq/L				Calculation	02/19/08 16:29 / sw
Cations	62.7	meq/L				Calculation	02/19/08 16:29 / sw
Solids, Total Dissolved Calculated	4000	mg/L				Calculation	02/19/08 16:29 / sw
TDS Balance (0.80 - 1.20)	1.06	dec. %				Calculation	02/19/08 16:29 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 14:54 / dkh
Bromofom	ND	ug/L		0.50		E624	01/30/08 14:54 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 14:54 / dkh
Chloroform	ND	ug/L		0.50		E624	01/30/08 14:54 / dkh
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 14:54 / dkh
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	01/30/08 14:54 / dkh
Surr: Dibromofluoromethane	100	%REC		80-120		E624	01/30/08 14:54 / dkh
Surr: p-Bromofluorobenzene	110	%REC		80-120		E624	01/30/08 14:54 / dkh
Surr: Toluene-d8	96.0	%REC		80-120		E624	01/30/08 14:54 / dkh

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040890-004
 Client Sample ID: EPA-4

Report Date: 06/09/08
 Collection Date: 04/14/08 13:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	167	mg/L		1		A2320 B	04/24/08 12:23 / ljl
Calcium	578	mg/L		0.5		E200.7	05/08/08 18:26 / cp
Chloride	35	mg/L		1		A4500-Cl B	04/28/08 15:15 / ljl
Magnesium	396	mg/L		0.5		E200.7	05/08/08 18:26 / cp
Nitrogen, Ammonia as N	0.61	mg/L		0.05		E350.1	04/24/08 10:24 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:43 / eli-b
Potassium	8.4	mg/L		0.5		E200.7	05/08/08 18:26 / cp
Sodium	183	mg/L	D	3		E200.7	05/08/08 18:26 / cp
Sulfate	2980	mg/L	D	30		A4500-SO ₄ E	04/24/08 13:37 / jal
PHYSICAL PROPERTIES							
pH	6.83	s.u.		0.01		A4500-H B	04/22/08 16:35 / dd
Solids, Total Dissolved TDS @ 180 C	4380	mg/L		10		A2540 C	04/21/08 15:38 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.7	05/08/08 18:26 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 18:26 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 20:26 / sml
Cobalt	ND	mg/L		0.01		E200.8	05/16/08 14:21 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 20:26 / sml
Manganese	3.48	mg/L		0.01		E200.7	05/08/08 18:26 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 18:26 / cp
Nickel	ND	mg/L		0.05		E200.8	05/16/08 14:21 / sml
Uranium	0.0004	mg/L		0.0003		E200.8	05/09/08 20:26 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 18:26 / cp
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	04/28/08 13:54 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/23/08 16:02 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.5	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	0.7	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	3.0	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-004
Client Sample ID: EPA-4

Report Date: 06/09/08
Collection Date: 04/14/08 13:35
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 00:04 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 00:04 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 00:04 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 00:04 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 00:04 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	04/22/08 00:04 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	04/22/08 00:04 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		E624	04/22/08 00:04 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	04/22/08 00:04 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-004
Client Sample ID: EPA-4

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/14/08 13:35
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.5	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	0.7	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	1.8	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	3.0	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Thorium 230	0.2	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/28/08 15:00 / dmf

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



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

Well ID:	EPA-4	EPA-4	EPA-4	EPA-4	
Collection Date:	4/14/2008	1/21/2008	10/8/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/3/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040890-004	C08011079-001	C07100722-001	C07070944-001
Bicarbonate as HCO ₃	mg/L	167	174	128	181
Calcium	mg/L	578	533	543	555
Chloride	mg/L	35	44	36	34
Magnesium	mg/L	396	359	374	388
Nitrogen, Ammonia as N	mg/L	0.61	0.56	0.64	0.68
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	0.1	ND(0.1)	0.1
Potassium	mg/L	8.4	8.5	8.1	8.0
Sodium	mg/L	183	140	170	176
Sulfate	mg/L	2980	2820	2840	2980
pH	s. u.	6.83	7.07	6.91	7.08
Solids, Total Dissolved TDS @ 180 C	mg/L	4380	4250	4520	4390
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	3.48	3.46	3.43	3.04
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	0.0004	0.0005	ND(0.0003)	0.0004
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	ND(0.001)	ND(0.001)	0.002
Selenium-IV	mg/L	ND(0.001)	0.002	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	2.5	1.5	2.3	1.7
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.6	0.8	0.4
Lead 210	pCi/L	0.7	4.4	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.4		
Radium 226	pCi/L	1.2	1.7	0.9	1.5
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2	0.4	0.5	0.4
Radium 228	pCi/L	3.0	ND(1.0)	ND(1.0)	ND(1.0)
Radium 228 MDC	pCi/L	1.0			
Radium 228 precision (±)	pCi/L	0.7			
Thorium 230	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-002
 Client Sample ID EPA-5

Report Date: 04/03/08
 Collection Date: 01/21/08 09:55
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	72	mg/L		1		A2320 B	01/28/08 19:33 / bas
Calcium	462	mg/L	D	0.8		E200.7	02/13/08 16:42 / cp
Chloride	59	mg/L	D	4		E200.7	02/13/08 16:42 / cp
Magnesium	497	mg/L	D	0.8		E200.7	02/13/08 16:42 / cp
Nitrogen, Ammonia as N	5.2	mg/L	D	0.1		A4500-NH ₃ -G	01/28/08 11:44 / jal
Nitrogen, Nitrate+Nitrite as N	18.9	mg/L	D	0.3		E353.2	01/29/08 11:39 / jal
Potassium	9.9	mg/L		0.5		E200.7	02/13/08 20:39 / cp
Sodium	97.1	mg/L		0.5		E200.7	02/13/08 20:39 / cp
Sulfate	3050	mg/L	D	2		E200.7	02/13/08 16:42 / cp
PHYSICAL PROPERTIES							
pH	6.65	s.u.	H	0.01		A4500-H B	01/29/08 11:47 / bas
Solids, Total Dissolved TDS @ 180 C	4710	mg/L		10		A2540 C	01/28/08 15:05 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/09/08 21:27 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/09/08 21:27 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/09/08 21:27 / ts
Cobalt	0.04	mg/L		0.01		E200.8	02/09/08 21:27 / ts
Lead	ND	mg/L		0.05		E200.8	02/09/08 21:27 / ts
Manganese	0.98	mg/L		0.01		E200.8	02/09/08 21:27 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/09/08 21:27 / ts
Nickel	ND	mg/L		0.05		E200.8	02/09/08 21:27 / ts
Uranium	0.0014	mg/L		0.0003		E200.8	02/09/08 21:27 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/09/08 21:27 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:24 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/28/08 15:57 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.3	pCi/L		1.0		E900.1	02/06/08 17:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/06/08 17:41 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:45 / dm
Radium 226	1.8	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	0.5	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	ND	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 14:15 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-002
 Client Sample ID EPA-5

Report Date: 04/03/08
 Collection Date: 01/21/08 09:55
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.885	%				Calculation	02/19/08 16:29 / sw
Anions	67.7	meq/L				Calculation	02/19/08 16:29 / sw
Cations	68.9	meq/L				Calculation	02/19/08 16:29 / sw
Solids: Total Dissolved Calculated	4290	mg/L				Calculation	02/19/08 16:29 / sw
TDS Balance (0.80 - 1.20)	1.10	dec. %				Calculation	02/19/08 16:29 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 15:33 / dkh
Bromoform	ND	ug/L		0.50		E624	01/30/08 15:33 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 15:33 / dkh
Chloroform	ND	ug/L		0.50		E624	01/30/08 15:33 / dkh
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 15:33 / dkh
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	01/30/08 15:33 / dkh
Surr: Dibromofluoromethane	107	%REC		80-120		E624	01/30/08 15:33 / dkh
Surr: p-Bromofluorobenzene	114	%REC		80-120		E624	01/30/08 15:33 / dkh
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/30/08 15:33 / dkh

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-005
Client Sample ID: EPA-5

Report Date: 06/09/08
Collection Date: 04/14/08 09:20
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	101	mg/L		1		A2320 B	04/24/08 12:36 / ljl
Calcium	498	mg/L		0.5		E200.7	05/08/08 18:30 / cp
Chloride	48	mg/L		1		A4500-Cl B	04/28/08 15:19 / ljl
Magnesium	536	mg/L		0.5		E200.7	05/08/08 18:30 / cp
Nitrogen, Ammonia as N	10.4	mg/L	D	0.1		E350.1	04/25/08 10:58 / eli-b
Nitrogen, Nitrate+Nitrite as N	19.8	mg/L		0.1		E353.2	04/28/08 11:44 / eli-b
Potassium	8.9	mg/L		0.5		E200.7	05/08/08 18:30 / cp
Sodium	118	mg/L	D	3		E200.7	05/08/08 18:30 / cp
Sulfate	3240	mg/L	D	30		A4500-SO4 E	04/24/08 13:39 / jal
PHYSICAL PROPERTIES							
pH	6.16	s.u.		0.01		A4500-H B	04/22/08 16:36 / dd
Solids, Total Dissolved TDS @ 180 C	4620	mg/L		10		A2540 C	04/21/08 15:38 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.7	05/08/08 18:30 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 18:30 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 20:33 / sml
Cobalt	0.04	mg/L		0.01		E200.8	05/20/08 03:11 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 20:33 / sml
Manganese	1.08	mg/L		0.01		E200.7	05/08/08 18:30 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 18:30 / cp
Nickel	ND	mg/L		0.05		E200.8	05/16/08 15:37 / sml
Uranium	0.0015	mg/L		0.0003		E200.8	05/09/08 20:33 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 18:30 / cp
METALS - SPECIATED							
Arsenic-III	0.001	mg/L		0.001		A3114 B	04/28/08 14:01 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/23/08 16:04 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.9	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-6.3	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.3	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	2.5	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-005
Client Sample ID: EPA-5

Report Date: 06/09/08
Collection Date: 04/14/08 09:20
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.7	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 00:43 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 00:43 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 00:43 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 00:43 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 00:43 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	04/22/08 00:43 / jlr
Surr: Dibromofluoromethane	108	%REC		80-120		E624	04/22/08 00:43 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	04/22/08 00:43 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/22/08 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-005
Client Sample ID: EPA-5

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/14/08 09:20
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	2.9	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-6.3	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	1.3	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	2.5	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Thorium 230	0.7	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	EPA-5	EPA-5	EPA-5	EPA-5	
Collection Date:	4/14/2008	1/21/2008	10/2/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/5/2007	7/20/2007	
Report Date:	6/9/2008	4/3/2008	11/19/2007	9/6/2007	
Analyte	Units	C08040890-005	C08011079-002	C07100334-001	C07070944-002
Bicarbonate as HCO ₃	mg/L	101	72	65	110
Calcium	mg/L	498	462	431	600
Chloride	mg/L	48	59	69	51
Magnesium	mg/L	536	497	478	663
Nitrogen, Ammonia as N	mg/L	10.4	5.2	8.2	9.7
Nitrogen, Nitrate+Nitrite as N	mg/L	19.8	18.9	18.4	20.4
Potassium	mg/L	8.9	9.9	10.2	8.4
Sodium	mg/L	118	97.1	119	116
Sulfate	mg/L	3240	3050	2960	3820
pH	s.u.	6.16	6.65	6.34	6.30
Solids, Total Dissolved TDS @ 180 C	mg/L	4620	4710	4880	4780
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	0.04	0.04	0.05	0.05
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	1.08	0.98	1.15	0.95
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.0015	0.0014	0.0015	0.0014
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.001	ND(0.001)	ND(0.001)	0.002
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	2.9	2.3	2.6	1.2
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.7	0.8	0.4
Lead 210	pCi/L	-6.3	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	1.3	1.8	1.3	1.5
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.2	0.5	0.4	0.4
Radium 228	pCi/L	2.5	ND(1.0)	ND(1.0)	1.5
Radium 228 MDC	pCi/L	1.0			
Radium 228 precision (±)	pCi/L	0.7			0.9
Thorium 230	pCi/L	0.7	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.9			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-003
 Client Sample ID EPA-7

Report Date: 04/03/08
 Collection Date: 01/21/08 10:50
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	608	mg/L		1		A2320 B	01/28/08 19:40 / bas
Calcium	500	mg/L	D	0.8		E200.7	02/13/08 16:46 / cp
Chloride	221	mg/L	D	4		E200.7	02/13/08 16:46 / cp
Magnesium	915	mg/L	D	0.8		E200.7	02/13/08 16:46 / cp
Nitrogen, Ammonia as N	0.19	mg/L		0.05		A4500-NH ₃ G	01/28/08 11:46 / jal
Nitrogen, Nitrate+Nitrite as N	127	mg/L	D	0.8		E353.2	01/29/08 11:42 / jal
Potassium	9.2	mg/L		0.5		E200.7	02/13/08 21:02 / cp
Sodium	368	mg/L		0.5		E200.7	02/13/08 21:02 / cp
Sulfate	4190	mg/L	D	2		E200.7	02/13/08 16:46 / cp
PHYSICAL PROPERTIES							
pH	6.53	s.u.		0.01		A4500-H B	01/28/08 15:19 / bas
Solids, Total Dissolved TDS @ 180 C	7690	mg/L		10		A2540 C	01/28/08 15:05 / dd
METALS - TOTAL							
Aluminum	1.3	mg/L		0.1		E200.8	02/09/08 21:33 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/09/08 21:33 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/09/08 21:33 / ts
Cobalt	0.02	mg/L		0.01		E200.8	02/09/08 21:33 / ts
Lead	ND	mg/L		0.05		E200.8	02/09/08 21:33 / ts
Manganese	1.74	mg/L		0.01		E200.8	02/09/08 21:33 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/09/08 21:33 / ts
Nickel	ND	mg/L		0.05		E200.8	02/09/08 21:33 / ts
Uranium	0.0022	mg/L		0.0003		E200.8	02/09/08 21:33 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/09/08 21:33 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:26 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/28/08 15:59 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L		1.0		E900.1	02/06/08 17:41 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/06/08 17:41 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:45 / dm
Radium 226	1.3	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	0.4	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	ND	pCi/L		1.0		RA-05	02/01/08 11:44 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 14:15 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08011079-003
 Client Sample ID: EPA-7

Report Date: 04/03/08
 Collection Date: 01/21/08 10:50
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.87	%				Calculation	02/19/08 16:30 / sw
Anions	113	meq/L				Calculation	02/19/08 16:30 / sw
Cations	117	meq/L				Calculation	02/19/08 16:30 / sw
Solids, Total Dissolved Calculated	7070	mg/L				Calculation	02/19/08 16:30 / sw
TDS Balance (0.80 - 1.20)	1.09	dec. %				Calculation	02/19/08 16:30 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 16:13 / dkh
Bromoform	ND	ug/L		0.50		E624	01/30/08 16:13 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 16:13 / dkh
Chloroform	0.60	ug/L		0.50		E624	01/30/08 16:13 / dkh
Trihalomethanes, Total	0.60	ug/L		0.50		E624	01/30/08 16:13 / dkh
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	01/30/08 16:13 / dkh
Surr: Dibromofluoromethane	112	%REC		80-120		E624	01/30/08 16:13 / dkh
Surr: p-Bromofluorobenzene	109	%REC		80-120		E624	01/30/08 16:13 / dkh
Surr: Toluene-d8	97.0	%REC		80-120		E624	01/30/08 16:13 / dkh

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 1
 Lab ID: C08040890-006
 Client Sample ID: EPA-7

Report Date: 06/09/08
 Collection Date: 04/14/08 10:05
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	596	mg/L		1		A2320 B	04/24/08 12:43 / ljl
Calcium	520	mg/L	D	0.8		E200.7	05/08/08 18:34 / cp
Chloride	208	mg/L		1		A4500-Cl B	04/28/08 16:00 / ljl
Magnesium	987	mg/L	D	0.8		E200.7	05/08/08 18:34 / cp
Nitrogen, Ammonia as N	0.08	mg/L		0.05		E350.1	04/24/08 10:26 / eli-b
Nitrogen, Nitrate+Nitrite as N	200	mg/L	D	0.2		E353.2	04/28/08 11:45 / eli-b
Potassium	7.8	mg/L		0.5		E200.7	05/08/08 18:34 / cp
Sodium	364	mg/L	D	5		E200.7	05/08/08 18:34 / cp
Sulfate	4760	mg/L	D	60		A4500-SO4 E	04/24/08 13:42 / jal
PHYSICAL PROPERTIES							
pH	6.43	s.u.		0.01		A4500-H B	04/22/08 16:39 / dd
Solids, Total Dissolved TDS @ 180 C	7280	mg/L		10		A2540 C	04/21/08 15:38 / dd
METALS - TOTAL							
Aluminum	0.4	mg/L		0.1		E200.7	05/08/08 18:34 / cp
Beryllium	ND	mg/L		0.01		E200.8	05/09/08 20:40 / sml
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 20:40 / sml
Cobalt	0.02	mg/L		0.01		E200.8	05/20/08 03:18 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 20:40 / sml
Manganese	1.80	mg/L		0.01		E200.7	05/08/08 18:34 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 18:34 / cp
Nickel	ND	mg/L		0.05		E200.8	05/16/08 15:43 / sml
Uranium	0.0017	mg/L		0.0003		E200.8	05/09/08 20:40 / sml
Vanadium	0.2	mg/L		0.1		E200.7	05/08/08 18:34 / cp
METALS - SPECIATED							
Arsenic-III	0.001	mg/L		0.001		A3114 B	04/28/08 14:09 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/23/08 16:06 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.9	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-6.7	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	0.4	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium-226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C08040890-006
Client Sample ID: EPA-7

Report Date: 06/09/08
Collection Date: 04/14/08 10:05
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.6	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 01:21 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 01:21 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 01:21 / jlr
Chloroform	0.76	ug/L		0.50		E624	04/22/08 01:21 / jlr
Trihalomethanes, Total	0.76	ug/L		0.50		E624	04/22/08 01:21 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	04/22/08 01:21 / jlr
Surr: Dibromofluoromethane	108	%REC		80-120		E624	04/22/08 01:21 / jlr
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		E624	04/22/08 01:21 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/22/08 01:21 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp.
 Project: Zone 1
 Lab ID: C08040890-006
 Client Sample ID: EPA-7

Revised Date: 07/20/08
 Report Date: 06/09/08
 Collection Date: 04/14/08 10:05
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.9	pCi/L		1.0		E900.1	04/28/08 16:13 / crw
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/28/08 16:13 / crw
Lead 210	-6.7	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	0.4	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/14/08 13:38 / taj
Radium 228	1.0	pCi/L	U			RA-05	05/08/08 07:55 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	05/08/08 07:55 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/08/08 07:55 / plj
Thorium 230	0.6	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	EPA-7	EPA-7	EPA-7	EPA-7	
Collection Date:	4/14/2008	1/21/2008	10/8/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/3/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040890-006	C08011079-003	C07100722-002	C07070944-003
Bicarbonate as HCO ₃	mg/L	596	608	598	590
Calcium	mg/L	520	500	489	511
Chloride	mg/L	208	221	200	195
Magnesium	mg/L	987	915	898	938
Nitrogen, Ammonia as N	mg/L	0.08	0.19	0.15	0.37
Nitrogen, Nitrate+Nitrite as N	mg/L	200	127	127	146
Potassium	mg/L	7.8	9.2	7.8	7.8
Sodium	mg/L	364	368	334	336
Sulfate	mg/L	4760	4190	4130	4360
pH	s. u.	6.43	6.53	6.70	6.42
Solids, Total Dissolved TDS @ 180 C	mg/L	7280	7690	7820	7680
Aluminum	mg/L	0.4	1.3	0.5	0.2
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.02	0.02	0.02	0.02
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	1.80	1.74	1.96	1.84
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	0.0017	0.0022	0.0019	0.0019
Vanadium	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.001	ND(0.001)	ND(0.001)	0.003
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.9	1.6	1.6	ND(1.0)
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.7	0.8	
Lead 210	pCi/L	6.7	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	0.4	1.3	ND(0.2)	ND(0.2)
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.1	0.4		
Radium 228	pCi/L	1.0	ND(1.0)	ND(1.0)	1.9
Radium 228 MDC	pCi/L	1.0			
Radium 228 precision (±)	pCi/L	0.7			0.9
Thorium 230	pCi/L	0.6	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
Trihalomethanes, Total		0.76	0.60	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.

QUARTERLY SAMPLING
SEMI-ANNUAL GROUND WATER MONITORING REPORT
JANUARY AND APRIL OF 2008

ZONE-3

504-B

*517

EPA-14

420

*711

*613

*708

NBL-1

EPA-13

717

719

LEVELS ONLY

EPA-9

702

710

712

713

714

701

706

707

402

446

424

*POINT OF COMPLIANCE WELLS



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-014
 Client Sample ID: 504-B

Report Date: 04/02/08
 Collection Date: 01/22/08 15:11
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	4	mg/L		1		A2320 B	01/28/08 18:14 / bas
Calcium	458	mg/L	D	0.8		E200.7	02/13/08 15:56 / cp
Chloride	35	mg/L	D	4		E200.7	02/13/08 15:56 / cp
Magnesium	607	mg/L	D	0.8		E200.7	02/13/08 15:56 / cp
Nitrogen, Ammonia as N	0.53	mg/L		0.05		A4500-NH3 G	01/28/08 11:30 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 11:19 / jal
Potassium	12.7	mg/L		0.5		E200.7	02/13/08 20:23 / cp
Sodium	142	mg/L		0.5		E200.7	02/13/08 20:23 / cp
Sulfate	3800	mg/L	D	2		E200.7	02/13/08 15:56 / cp
PHYSICAL PROPERTIES							
pH	3.66	s.u.		0.01		A4500-H B	01/29/08 11:26 / bas
Solids, Total Dissolved TDS @ 180 C	5590	mg/L		10		A2540 C	01/28/08 15:00 / dd
METALS - TOTAL							
Aluminum	2.4	mg/L		0.1		E200.8	02/08/08 00:10 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/08/08 00:10 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/08/08 00:10 / ts
Cobalt	0.25	mg/L		0.01		E200.8	02/08/08 00:10 / ts
Lead	ND	mg/L		0.05		E200.8	02/08/08 00:10 / ts
Manganese	6.88	mg/L		0.01		E200.8	02/08/08 00:10 / ts
Molybdenum	2.8	mg/L		0.1		E200.8	02/08/08 00:10 / ts
Nickel	0.29	mg/L		0.05		E200.8	02/08/08 00:10 / ts
Uranium	0.0307	mg/L		0.0003		E200.8	02/08/08 00:10 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/08/08 00:10 / ts
METALS - SPECIATED							
Arsenic-III	0.035	mg/L		0.001		A3114 B	01/30/08 15:13 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:46 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	16.0	pCi/L		1.0		E900.1	02/11/08 14:15 / crw
Gross Alpha minus Rn & U Precision (±)	1.3	pCi/L				E900.1	02/11/08 14:15 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	16.4	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	1.4	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	19.6	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Radium 228 precision (±)	1.6	pCi/L				RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-014
 Client Sample ID: 504-B

Report Date: 04/02/08
 Collection Date: 01/22/08 15:11
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.031	%				Calculation	02/21/08 09:57 / sw
Anions	80.1	meq/L				Calculation	02/21/08 09:57 / sw
Cations	80.1	meq/L				Calculation	02/21/08 09:57 / sw
Solids, Total Dissolved Calculated	5060	mg/L				Calculation	02/21/08 09:57 / sw
TDS Balance (0.80 - 1.20)	1.10	dec. %				Calculation	02/21/08 09:57 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/31/08 01:49 / jlr
Bromoform	ND	ug/L		0.50		E624	01/31/08 01:49 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/31/08 01:49 / jlr
Chloroform	ND	ug/L		0.50		E624	01/31/08 01:49 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/31/08 01:49 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/31/08 01:49 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/31/08 01:49 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/31/08 01:49 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/31/08 01:49 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-002
 Client Sample ID: 504-B

Report Date: 06/09/08
 Collection Date: 04/15/08 15:00
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/24/08 13:27 / ljl
Calcium	486	mg/L		0.5		E200.7	05/08/08 19:07 / cp
Chloride	26	mg/L		1		A4500-Cl B	04/28/08 16:46 / ljl
Magnesium	652	mg/L		0.5		E200.7	05/08/08 19:07 / cp
Nitrogen, Ammonia as N	0.43	mg/L		0.05		E350.1	04/25/08 10:38 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:24 / eli-b
Potassium	12.1	mg/L		0.5		E200.7	05/08/08 19:07 / cp
Sodium	151	mg/L	D	3		E200.7	05/08/08 19:07 / cp
Sulfate	4300	mg/L	D	60		A4500-SO ₄ E	04/24/08 13:58 / jal
PHYSICAL PROPERTIES							
pH	3.51	s.u.		0.01		A4500-H B	04/22/08 16:47 / dd
Solids, Total Dissolved TDS @ 180 C	5630	mg/L		10		A2540 C	04/21/08 18:29 / dd
METALS - TOTAL							
Aluminum	4.8	mg/L		0.1		E200.7	05/08/08 19:07 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 19:07 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 21:27 / sml
Cobalt	0.25	mg/L		0.01		E200.8	05/20/08 03:31 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 21:27 / sml
Manganese	6.67	mg/L		0.01		E200.7	05/08/08 19:07 / cp
Molybdenum	3.1	mg/L		0.1		E200.7	05/08/08 19:07 / cp
Nickel	0.27	mg/L		0.05		E200.8	05/16/08 16:04 / sml
Uranium	0.0373	mg/L		0.0003		E200.8	05/09/08 21:27 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 19:07 / cp
METALS - SPECIATED							
Arsenic-III	0.01	mg/L		0.001		A3114 B	04/28/08 14:48 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 11:51 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	14.6	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	9.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	23.1	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.6	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj

Report: RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp.
 Project: Zone 3
 Lab ID: C08040891-002
 Client Sample ID: 504-B

Report Date: 06/09/08
 Collection Date: 04/15/08 15:00
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision:(±)	0.5	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 16:04 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 16:04 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 16:04 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 16:04 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 16:04 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	04/22/08 16:04 / jlr
Surr: Dibromofluoromethane	107	%REC		80-120		E624	04/22/08 16:04 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		E624	04/22/08 16:04 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	04/22/08 16:04 / jlr

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-002
Client Sample ID: 504-B

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/15/08 15:00
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	14.6	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	1.8	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	9.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	23.1	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.6	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	-0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.5	pCi/L				E907.0	04/28/08 15:00 / dmf

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.

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

Well ID:	504-B	504-B	504-B	504-B	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/17/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-002	C08011074-014	C07100719-007	C07070953-009
Bicarbonate as HCO ₃	mg/L	ND(1)	4	6	ND(1)
Calcium	mg/L	486	458	480	484
Chloride	mg/L	26	35	29	28
Magnesium	mg/L	652	607	657	674
Nitrogen, Ammonia as N	mg/L	0.43	0.53	0.73	0.83
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	12.1	12.7	12.4	12.1
Sodium	mg/L	151	142	151	154
Sulfate	mg/L	4300	3800	4050	4180
pH	s.u.	3.51	3.66	4.81	3.35
Solids, Total Dissolved TDS @ 180 C	mg/L	5630	5590	6000	5690
Aluminum	mg/L	4.8	2.4	0.1	0.9
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	0.25	0.25	0.24	0.25
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	6.67	6.88	7.52	6.41
Molybdenum	mg/L	3.1	2.8	1.0	2.3
Nickel	mg/L	0.27	0.29	0.26	0.28
Uranium	mg/L	0.0373	0.0307	0.0195	0.0248
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.01	0.035	0.02	0.05
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	14.6	16.0	10.7	13.5
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.1	1.3	1.1	1.0
Lead 210	pCi/L	0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2			
Radium 226	pCi/L	9.0	16.4	8.2	11.5
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.5	1.4	1.2	1.1
Radium 228	pCi/L	23.1	19.6	16.9	17.1
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.6	1.6	2.4	1.3
Thorium 230	pCi/L	-0.1	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.5			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-001
 Client Sample ID 517

Report Date: 04/02/08
 Collection Date: 01/21/08 13:33
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	01/28/08 16:32 / bas
Calcium	454	mg/L	D	0.8		E200.7	02/13/08 14:06 / cp
Chloride	45	mg/L	D	4		E200.7	02/13/08 14:06 / cp
Magnesium	431	mg/L	D	0.8		E200.7	02/13/08 14:06 / cp
Nitrogen, Ammonia as N	11.8	mg/L	D	0.1		A4500-NH ₃ G	01/28/08 10:38 / jal
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	01/29/08 10:34 / jal
Potassium	12.9	mg/L		0.5		E200.7	02/13/08 19:20 / cp
Sodium	155	mg/L		0.5		E200.7	02/13/08 19:20 / cp
Sulfate	3190	mg/L	D	2		E200.7	02/13/08 14:06 / cp
PHYSICAL PROPERTIES							
pH	3.90	s.u.	H	0.01		A4500-H B	01/29/08 10:51 / bas
Solids, Total Dissolved TDS @ 180 C	5080	mg/L		10		A2540 C	01/28/08 14:53 / dd
METALS - TOTAL							
Aluminum	5.1	mg/L		0.1		E200.8	02/07/08 21:48 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 21:48 / ts
Cadmium	0.009	mg/L		0.005		E200.8	02/07/08 21:48 / ts
Cobalt	0.79	mg/L		0.01		E200.8	02/07/08 21:48 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 21:48 / ts
Manganese	8.80	mg/L		0.01		E200.8	02/07/08 21:48 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/07/08 21:48 / ts
Nickel	0.84	mg/L		0.05		E200.8	02/07/08 21:48 / ts
Uranium	0.0561	mg/L		0.0003		E200.8	02/07/08 21:48 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 21:48 / ts
METALS - SPECIATED							
Arsenic-III	0.003	mg/L		0.001		A3114 B	01/30/08 11:38 / rw
Selenium-IV	0.001	mg/L		0.001		A3114 B	01/29/08 16:04 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	13.0	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.2	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	-0.9	pCi/L		1.0		E909.0M	02/28/08 08:15 / dm
Lead 210 precision (±)	1.0	pCi/L				E909.0M	02/28/08 08:15 / dm
Radium 226	11.8	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	1.2	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	17.4	pCi/L		1.0		RA-05	01/31/08 11:25 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	01/31/08 11:25 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-001
 Client Sample ID: 517

Report Date: 04/02/08
 Collection Date: 01/21/08 13:33
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-0.366	%				Calculation	02/21/08 09:52 / sw
Anions	67.7	meq/L				Calculation	02/21/08 09:52 / sw
Cations	67.2	meq/L				Calculation	02/21/08 09:52 / sw
Solids, Total Dissolved Calculated	4300	mg/L				Calculation	02/21/08 09:52 / sw
TDS Balance (0.80 - 1.20)	1.18	dec. %				Calculation	02/21/08 09:52 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 17:29 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 17:29 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 17:29 / jlr
Chloroform	6.24	ug/L		0.50		E624	01/30/08 17:29 / jlr
Trihalomethanes, Total	6.24	ug/L		0.50		E624	01/30/08 17:29 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/30/08 17:29 / jlr
Surr: Dibromofluoromethane	107	%REC		80-120		E624	01/30/08 17:29 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	01/30/08 17:29 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/30/08 17:29 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-003
 Client Sample ID: 517

Report Date: 06/09/08
 Collection Date: 04/15/08 11:50
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/24/08 13:30 / ljl
Calcium	488	mg/L		0.5		E200.7	05/08/08 19:15 / cp
Chloride	40	mg/L		1		A4500-Cl B	04/28/08 16:56 / ljl
Magnesium	473	mg/L		0.5		E200.7	05/08/08 19:15 / cp
Nitrogen, Ammonia as N	10.0	mg/L	D	0.1		E350.1	04/29/08 11:03 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:25 / eli-b
Potassium	11.1	mg/L		0.5		E200.7	05/08/08 19:15 / cp
Sodium	145	mg/L	D	3		E200.7	05/08/08 19:15 / cp
Sulfate	3810	mg/L	D	60		A4500-SO4 E	04/24/08 14:00 / jal
PHYSICAL PROPERTIES							
pH	3.31	s.u.		0.01		A4500-H B	04/22/08 16:48 / dd
Solids, Total Dissolved TDS @ 180 C	4880	mg/L		10		A2540 C	04/21/08 18:29 / dd
METALS - TOTAL							
Aluminum	5.1	mg/L		0.1		E200.7	05/08/08 19:15 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 19:15 / cp
Cadmium	0.008	mg/L		0.005		E200.8	05/09/08 21:34 / sml
Cobalt	0.85	mg/L		0.01		E200.8	05/20/08 03:38 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 21:34 / sml
Manganese	9.04	mg/L		0.01		E200.7	05/08/08 19:15 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 19:15 / cp
Nickel	0.84	mg/L		0.05		E200.7	05/08/08 19:15 / cp
Uranium	0.0525	mg/L		0.0003		E200.8	05/09/08 21:34 / sml
Vanadium	0.2	mg/L		0.1		E200.7	05/08/08 19:15 / cp
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	05/01/08 12:35 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 11:54 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	11.3	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	6.6	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	20.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj

Report: RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-003
Client Sample ID: 517

Report Date: 06/09/08
Collection Date: 04/15/08 11:50
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	1.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 16:43 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 16:43 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 16:43 / jlr
Chloroform	3.98	ug/L		0.50		E624	04/22/08 16:43 / jlr
Trihalomethanes, Total	3.98	ug/L		0.50		E624	04/22/08 16:43 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	04/22/08 16:43 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	04/22/08 16:43 / jlr
Surr: p-Bromofluorobenzene	100	%REC		80-120		E624	04/22/08 16:43 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	04/22/08 16:43 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-003
 Client Sample ID: 517

Revised Date: 07/20/08
 Report Date: 06/09/08
 Collection Date: 04/15/08 11:50
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	11.3	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.0	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.5	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	6.6	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	20.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	1.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	517	517	517	517	
Collection Date:	4/15/2008	1/21/2008	10/8/2007	7/10/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/13/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	8/27/2007	
Analyte	Units	C08040891-003	C08011074-001	C07100719-002	C07070680-017
Bicarbonate as HCO ₃	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	488	454	478	508
Chloride	mg/L	40	45	47	44
Magnesium	mg/L	473	431	463	477
Nitrogen, Ammonia as N	mg/L	10.0	11.8	10.9	10.4
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	0.2	0.2	ND(0.1)
Potassium	mg/L	11.1	12.9	11.8	11.3
Sodium	mg/L	145	155	147	154
Sulfate	mg/L	3810	3190	3390	3590
pH	s.u.	3.31	3.90	3.93	3.18
Solids, Total Dissolved TDS @ 180 C	mg/L	4880	5080	5130	4910
Aluminum	mg/L	5.1	5.1	4.7	4.7
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	0.008	0.009	0.007	0.008
Cobalt	mg/L	0.85	0.79	0.80	0.83
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	9.04	8.80	8.98	8.08
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.84	0.84	0.76	0.87
Uranium	mg/L	0.0525	0.0561	0.0518	0.048
Vanadium	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	0.003	ND(0.001)	0.02
Selenium-IV	mg/L	ND(0.001)	0.001	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	11.3	13.0	11.2	11.6
Gross Alpha minus Rn & U Precision (±)	pCi/L	1	1.2	1.1	1.0
Lead 210	pCi/L	0	-0.9	1.8	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.0	1.4	
Radium 226	pCi/L	6.6	11.8	5.6	7.4
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.4	1.2	1.1	0.9
Radium 228	pCi/L	20.3	17.4	14.1	14.2
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.5	1.5	2.3	1.3
Thorium 230	pCi/L	1.3	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.9			
Trihalomethanes, Total		3.98	6.24	6.76	5.64

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-008
 Client Sample ID EPA-14

Report Date: 04/02/08
 Collection Date: 01/22/08 10:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	01/28/08 17:04 / bas
Calcium	440	mg/L	D	0.8		E200.7	02/13/08 14:42 / cp
Chloride	98	mg/L		1		E200.7	02/13/08 19:43 / cp
Magnesium	563	mg/L	D	0.8		E200.7	02/13/08 14:42 / cp
Nitrogen, Ammonia as N	94.6	mg/L	D	0.4		A4500-NH3 G	01/28/08 11:12 / jal
Nitrogen, Nitrate+Nitrite as N	24.6	mg/L		0.2		E353.2	01/29/08 10:59 / jal
Potassium	12.8	mg/L		0.5		E200.7	02/13/08 19:43 / cp
Sodium	179	mg/L		0.5		E200.7	02/13/08 19:43 / cp
Sulfate	4400	mg/L	D	2		E200.7	02/13/08 14:42 / cp
PHYSICAL PROPERTIES							
pH	4.40	s.u.		0.01		A4500-H B	01/29/08 11:04 / bas
Solids, Total Dissolved TDS @ 180 C	6680	mg/L		10		A2540 C	01/28/08 14:57 / dd
METALS - TOTAL							
Aluminum	163	mg/L		0.1		E200.7	02/13/08 14:42 / cp
Beryllium	0.09	mg/L		0.01		E200.8	02/07/08 22:55 / ts
Cadmium	0.015	mg/L		0.005		E200.8	02/07/08 22:55 / ts
Cobalt	0.90	mg/L		0.01		E200.8	02/07/08 22:55 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 22:55 / ts
Manganese	20.4	mg/L		0.01		E200.8	02/07/08 22:55 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/07/08 22:55 / ts
Nickel	0.87	mg/L		0.05		E200.8	02/07/08 22:55 / ts
Uranium	0.0140	mg/L		0.0003		E200.8	02/07/08 22:55 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 22:55 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 11:56 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:18 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	27.7	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.7	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	4.8	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/30/08 09:35 / dm
Radium 226	20.9	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	1.6	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	52.3	pCi/L		1.0		RA-05	01/31/08 12:59 / pij
Radium 228 precision (±)	1.9	pCi/L				RA-05	01/31/08 12:59 / pij
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-008
 Client Sample ID: EPA-14

Report Date: 04/02/08
 Collection Date: 01/22/08 10:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	3.37	%				Calculation	04/02/08 16:54 / sw
Anions	96.0	meq/L				Calculation	04/02/08 16:54 / sw
Cations	103	meq/L				Calculation	04/02/08 16:54 / sw
Solids, Total Dissolved Calculated	5980	mg/L				Calculation	04/02/08 16:54 / sw
TDS Balance (0.80 - 1.20)	1.12	dec. %				Calculation	04/02/08 16:54 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 21:57 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 21:57 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 21:57 / jlr
Chloroform	2.87	ug/L		0.50		E624	01/30/08 21:57 / jlr
Trihalomethanes, Total	2.87	ug/L		0.50		E624	01/30/08 21:57 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/30/08 21:57 / jlr
Surr: Dibromofluoromethane	114	%REC		80-120		E624	01/30/08 21:57 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/30/08 21:57 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/30/08 21:57 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-006
 Client Sample ID: EPA-14

Report Date: 06/09/08
 Collection Date: 04/15/08 10:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	04/24/08 14:03 / ljl
Calcium	482	mg/L		0.5		E200.7	05/08/08 19:27 / cp
Chloride	77	mg/L		1		A4500-Cl B	04/28/08 17:28 / ljl
Magnesium	615	mg/L		0.5		E200.7	05/08/08 19:27 / cp
Nitrogen, Ammonia as N	91.2	mg/L	D	0.4		E350.1	04/30/08 11:37 / eli-b
Nitrogen, Nitrate+Nitrite as N	27.9	mg/L		0.1		E353.2	04/28/08 11:28 / eli-b
Potassium	12.6	mg/L		0.5		E200.7	05/08/08 19:27 / cp
Sodium	187	mg/L	D	3		E200.7	05/08/08 19:27 / cp
Sulfate	5260	mg/L	D	60		A4500-SO4 E	04/24/08 14:06 / jal
PHYSICAL PROPERTIES							
pH	4.07	s.u.		0.01		A4500-H B	04/22/08 16:53 / dd
Solids, Total Dissolved TDS @ 180 C	6650	mg/L		10		A2540 C	04/21/08 18:30 / dd
METALS - TOTAL							
Aluminum	137	mg/L		0.1		E200.7	05/08/08 19:27 / cp
Beryllium	0.09	mg/L		0.01		E200.7	05/08/08 19:27 / cp
Cadmium	0.011	mg/L		0.005		E200.8	05/16/08 17:04 / sml
Cobalt	0.95	mg/L	D	0.02		E200.7	05/08/08 19:27 / cp
Lead	ND	mg/L		0.05		E200.8	05/16/08 17:04 / sml
Manganese	22.0	mg/L		0.01		E200.7	05/08/08 19:27 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 19:27 / cp
Nickel	0.89	mg/L		0.05		E200.7	05/08/08 19:27 / cp
Uranium	0.0141	mg/L		0.0003		E200.8	05/16/08 17:04 / sml
Vanadium	0.2	mg/L		0.1		E200.7	05/08/08 19:27 / cp
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	05/01/08 13:06 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 12:04 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	25.9	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.5	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-2	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	17.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.7	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	56.1	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	2.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-006
 Client Sample ID: EPA-14

Report Date: 06/09/08
 Collection Date: 04/15/08 10:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 21:47 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 21:47 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 21:47 / jlr
Chloroform	3.00	ug/L		0.50		E624	04/22/08 21:47 / jlr
Trihalomethanes, Total	3.00	ug/L		0.50		E624	04/22/08 21:47 / jlr
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		E624	04/22/08 21:47 / jlr
Surr: Dibromofluoromethane	123	%REC	S	80-120		E624	04/22/08 21:47 / jlr
Surr: p-Bromofluorobenzene	92.0	%REC		80-120		E624	04/22/08 21:47 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	04/22/08 21:47 / 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.
 S - Spike recovery outside of advisory limits.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-006
Client Sample ID: EPA-14

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/15/08 10:35
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	25.9	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.5	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-2.2	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.0	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	17.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.7	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	56.1	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	2.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.3	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	EPA-14	EPA-14	EPA-14	EPA-14	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-006	C08011074-008	C07100719-011	C07070953-001
Bicarbonate as HCO ₃	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	482	440	483	523
Chloride	mg/L	77	98	79	70
Magnesium	mg/L	615	563	558	562
Nitrogen, Ammonia as N	mg/L	91.2	94.6	74.9	70.2
Nitrogen, Nitrate+Nitrite as N	mg/L	27.9	24.6	24.0	32
Potassium	mg/L	12.6	12.8	11.3	12.3
Sodium	mg/L	187	179	174	173
Sulfate	mg/L	5260	4400	4220	4280
pH	s.u.	4.07	4.40	4.36	4.34
Solids, Total Dissolved TDS @ 180 C	mg/L	6650	6680	6420	5860
Aluminum	mg/L	137	163	121	102
Beryllium	mg/L	0.09	0.09	0.07	0.06
Cadmium	mg/L	0.011	0.015	0.010	0.012
Cobalt	mg/L	0.95	0.90	0.78	0.72
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	22.0	20.4	17.3	15.8
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.89	0.87	0.76	0.76
Uranium	mg/L	0.0141	0.0140	0.0108	0.0103
Vanadium	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	0.002
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	25.9	27.7	26.9	22.4
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.5	1.7	1.6	1.3
Lead 210	pCi/L	-2	4.8	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.6		
Radium 226	pCi/L	17.2	20.9	13.8	16.8
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.7	1.6	1.5	1.4
Radium 228	pCi/L	56.1	52.3	35.4	36.8
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	2.3	1.9	2.6	1.5
Thorium 230	pCi/L	0.3	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
Trihalomethanes, Total		3.00	2.87	2.29	3.30

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-007
 Client Sample ID 420

Report Date: 04/02/08
 Collection Date: 01/22/08 10:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	455	mg/L		1		A2320 B	01/28/08 17:01 / bas
Calcium	654	mg/L	D	0.8		E200.7	02/13/08 14:39 / cp
Chloride	50	mg/L		1		E200.7	02/13/08 19:40 / cp
Magnesium	131	mg/L		0.5		E200.7	02/13/08 19:40 / cp
Nitrogen, Ammonia as N	0.08	mg/L		0.05		A4500-NH ₃ G	01/28/08 10:56 / jal
Nitrogen, Nitrate+Nitrite as N	0.5	mg/L		0.1		E353.2	01/29/08 10:57 / jal
Potassium	7.3	mg/L		0.5		E200.7	02/13/08 19:40 / cp
Sodium	137	mg/L		0.5		E200.7	02/13/08 19:40 / cp
Sulfate	1890	mg/L	D	2		E200.7	02/13/08 14:39 / cp
PHYSICAL PROPERTIES							
pH	7.12	s.u.		0.01		A4500-H B	01/29/08 11:03 / bas
Solids, Total Dissolved TDS @ 180 C	3320	mg/L		10		A2540 C	01/28/08 14:56 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/07/08 22:49 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 22:49 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 22:49 / ts
Cobalt	0.01	mg/L		0.01		E200.8	02/07/08 22:49 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 22:49 / ts
Manganese	1.83	mg/L		0.01		E200.8	02/07/08 22:49 / ts
Molybdenum	0.3	mg/L		0.1		E200.8	02/07/08 22:49 / ts
Nickel	ND	mg/L		0.05		E200.8	02/07/08 22:49 / ts
Uranium	0.303	mg/L		0.0003		E200.8	02/07/08 22:49 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 22:49 / ts
METALS - SPECIATED							
Arsenic-III	0.037	mg/L		0.001		A3114 B	01/30/08 11:54 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:16 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	4.4	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	3.7	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Lead 210 precision (±)	1.5	pCi/L				E909.0M	01/30/08 09:35 / dm
Radium 226	4.2	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	0.7	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	2.8	pCi/L		1.0		RA-05	01/31/08 12:59 / plj
Radium 228 precision (±)	1.1	pCi/L				RA-05	01/31/08 12:59 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-007
 Client Sample ID: 420

Report Date: 04/02/08
 Collection Date: 01/22/08 10:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.50	%				Calculation	02/21/08 09:55 / sw
Anions	48.2	meq/L				Calculation	02/21/08 09:55 / sw
Cations	49.7	meq/L				Calculation	02/21/08 09:55 / sw
Solids, Total Dissolved Calculated	3100	mg/L				Calculation	02/21/08 09:55 / sw
TDS Balance (0.80 - 1.20)	1.07	dec. %				Calculation	02/21/08 09:55 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 21:19 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 21:19 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 21:19 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 21:19 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 21:19 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	01/30/08 21:19 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	01/30/08 21:19 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/30/08 21:19 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/30/08 21:19 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-001
 Client Sample ID: 420

Report Date: 06/09/08
 Collection Date: 04/15/08 09:20
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	436	mg/L		1		A2320 B	04/24/08 13:23 / ljl
Calcium	694	mg/L		0.5		E200.7	05/08/08 18:55 / cp
Chloride	39	mg/L		1		A4500-Cl B	04/28/08 16:09 / ljl
Magnesium	138	mg/L		0.5		E200.7	05/08/08 18:55 / cp
Nitrogen, Ammonia as N	0.05	mg/L		0.05		E350.1	04/24/08 10:32 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:22 / eli-b
Potassium	6.5	mg/L		0.5		E200.7	05/08/08 18:55 / cp
Sodium	139	mg/L	D	3		E200.7	05/08/08 18:55 / cp
Sulfate	2110	mg/L	D	30		A4500-SO ₄ E	04/24/08 13:45 / jal
PHYSICAL PROPERTIES							
pH	7.10	s.u.		0.01		A4500-H B	04/22/08 16:45 / dd
Solids, Total Dissolved TDS @ 180 C	3240	mg/L		10		A2540 C	04/21/08 15:39 / dd
METALS - TOTAL							
Aluminum	0.1	mg/L		0.1		E200.7	05/08/08 18:55 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 18:55 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/09/08 21:20 / sml
Cobalt	0.01	mg/L		0.01		E200.8	05/20/08 03:24 / sml
Lead	ND	mg/L		0.05		E200.8	05/09/08 21:20 / sml
Manganese	1.84	mg/L		0.01		E200.7	05/08/08 18:55 / cp
Molybdenum	0.4	mg/L		0.1		E200.7	05/08/08 18:55 / cp
Nickel	ND	mg/L		0.05		E200.8	05/16/08 15:57 / sml
Uranium	0.282	mg/L		0.0003		E200.8	05/09/08 21:20 / sml
Vanadium	ND	mg/L		0.1		E200.7	05/08/08 18:55 / cp
METALS - SPECIATED							
Arsenic-III	0.006	mg/L		0.001		A3114 B	04/28/08 14:40 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 11:49 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	4.0	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	5	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	2.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	4.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-001
Client Sample ID: 420

Report Date: 06/09/08
Collection Date: 04/15/08 09:20
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 15:25 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 15:25 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 15:25 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 15:25 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 15:25 / jlr
Surr: 1,2-Dichlorobenzene-d4	94.0	%REC		80-120		E624	04/22/08 15:25 / jlr
Surr: Dibromofluoromethane	100	%REC		80-120		E624	04/22/08 15:25 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	04/22/08 15:25 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/22/08 15:25 / jlr

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-001
 Client Sample ID: 420

Revised Date: 07/20/08
 Report Date: 06/09/08
 Collection Date: 04/15/08 09:20
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	4.0	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-4.9	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	2.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	4.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf

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



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

Well ID:	420	420	420	420	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/17/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-001	C08011074-007	C07100719-009	C07070953-010
Bicarbonate as HCO ₃	mg/L	436	455	476	749
Calcium	mg/L	694	654	649	596
Chloride	mg/L	39	50	43	66
Magnesium	mg/L	138	131	137	156
Nitrogen, Ammonia as N	mg/L	0.05	0.08	ND(0.05)	0.13
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	0.5	2.8	20
Potassium	mg/L	6.5	7.3	6.1	6.7
Sodium	mg/L	139	137	125	150
Sulfate	mg/L	2110	1890	1860	1870
pH	s. u.	7.10	7.12	7.13	7.59
Solids, Total Dissolved TDS @ 180 C	mg/L	3240	3320	3340	3160
Aluminum	mg/L	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	0.01	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	1.84	1.83	2.05	1.01
Molybdenum	mg/L	0.4	0.3	0.1	0.2
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.282	0.303	0.269	0.133
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.006	0.037	0.005	0.03
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	4.0	4.4	3.1	2.3
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.6	0.7	0.7	0.5
Lead 210	pCi/L	-5	3.7	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.5		
Radium 226	pCi/L	2.0	4.2	1.7	2.3
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.2	0.7	0.6	0.5
Radium 228	pCi/L	4.4	2.8	3.5	4.5
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.0	1.1	2.0	1
Thorium 230	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.4			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-003
 Client Sample ID: 711

Report Date: 04/02/08
 Collection Date: 01/21/08 14:40
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	01/28/08 16:39 / bas
Calcium	460	mg/L	D	0.8		E200.7	02/13/08 14:26 / cp
Chloride	23	mg/L	D	4		E200.7	02/13/08 14:26 / cp
Magnesium	475	mg/L	D	0.8		E200.7	02/13/08 14:26 / cp
Nitrogen, Ammonia as N	0.51	mg/L		0.05		A4500-NH3 G	01/28/08 10:42 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 10:39 / jal
Potassium	12.1	mg/L		0.5		E200.7	02/13/08 19:27 / cp
Sodium	98.6	mg/L		0.5		E200.7	02/13/08 19:27 / cp
Sulfate	3190	mg/L	D	2		E200.7	02/13/08 14:26 / cp
PHYSICAL PROPERTIES							
pH	3.54	s.u.	H	0.01		A4500-H B	01/29/08 10:55 / bas
Solids, Total Dissolved TDS @ 180 C	4850	mg/L		10		A2540 C	01/28/08 14:54 / dd
METALS - TOTAL							
Aluminum	0.4	mg/L		0.1		E200.8	02/07/08 22:01 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 22:01 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 22:01 / ts
Cobalt	0.38	mg/L		0.01		E200.8	02/07/08 22:01 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 22:01 / ts
Manganese	6.34	mg/L		0.01		E200.8	02/07/08 22:01 / ts
Molybdenum	0.2	mg/L		0.1		E200.8	02/07/08 22:01 / ts
Nickel	0.35	mg/L		0.05		E200.8	02/07/08 22:01 / ts
Uranium	0.0241	mg/L		0.0003		E200.8	02/07/08 22:01 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 22:01 / ts
METALS - SPECIATED							
Arsenic-III	0.045	mg/L		0.001		A3114 B	01/30/08 11:43 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:08 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	9.1	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.0	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	02/13/08 11:30 / dm
Radium 226	7.0	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	0.9	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	15.3	pCi/L		1.0		RA-05	01/31/08 11:25 / plj
Radium 228 precision (±)	1.4	pCi/L				RA-05	01/31/08 11:25 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-003
 Client Sample ID: 711

Report Date: 04/02/08
 Collection Date: 01/21/08 14:40
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.089	%				Calculation	02/21/08 09:53 / sw
Anions	67.1	meq/L				Calculation	02/21/08 09:53 / sw
Cations	67.2	meq/L				Calculation	02/21/08 09:53 / sw
Solids, Total Dissolved Calculated	4260	mg/L				Calculation	02/21/08 09:53 / sw
TDS Balance (0.80 - 1.20)	1.14	dec. %				Calculation	02/21/08 09:53 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 14:56 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 14:56 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 14:56 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 14:56 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 14:56 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/30/08 14:56 / jlr
Surr: Dibromofluoromethane	103	%REC		80-120		E624	01/30/08 14:56 / jlr
Surr: p-Bromofluorobenzene	102	%REC		80-120		E624	01/30/08 14:56 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/30/08 14:56 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-008
 Client Sample ID: 711

Report Date: 06/09/08
 Collection Date: 04/14/08 14:50
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/24/08 14:09 / ljl
Calcium	479	mg/L		0.5		E200.7	05/08/08 20:20 / cp
Chloride	15	mg/L		1		A4500-Cl B	04/28/08 17:45 / ljl
Magnesium	492	mg/L		0.5		E200.7	05/08/08 20:20 / cp
Nitrogen, Ammonia as N	0.36	mg/L		0.05		E350.1	04/25/08 10:47 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/08 08:08 / eli-b
Potassium	10.7	mg/L		0.5		E200.7	05/08/08 20:20 / cp
Sodium	98	mg/L	D	3		E200.7	05/08/08 20:20 / cp
Sulfate	3470	mg/L	D	30		A4500-SO4 E	04/24/08 14:28 / jal
PHYSICAL PROPERTIES							
pH	3.91	s.u.		0.01		A4500-H B	04/22/08 18:02 / dd
Solids, Total Dissolved TDS @ 180 C	4770	mg/L		10		A2540 C	04/21/08 18:30 / dd
METALS - TOTAL							
Aluminum	0.5	mg/L		0.1		E200.7	05/08/08 20:20 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 20:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/16/08 17:18 / sml
Cobalt	0.38	mg/L	D	0.02		E200.7	05/08/08 20:20 / cp
Lead	ND	mg/L		0.05		E200.8	05/16/08 17:18 / sml
Manganese	6.59	mg/L		0.01		E200.7	05/08/08 20:20 / cp
Molybdenum	0.2	mg/L		0.1		E200.7	05/08/08 20:20 / cp
Nickel	0.35	mg/L		0.05		E200.7	05/08/08 20:20 / cp
Uranium	0.0248	mg/L		0.0003		E200.8	05/16/08 17:18 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/16/08 17:18 / sml
METALS - SPECIATED							
Arsenic-III	0.01	mg/L		0.001		A3114 B	05/01/08 13:22 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 12:08 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	8.4	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.8	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	4.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	18.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-008
 Client Sample ID: 711

Report Date: 06/09/08
 Collection Date: 04/14/08 14:50
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.4	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 23:04 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 23:04 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 23:04 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 23:04 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 23:04 / jlr
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		E624	04/22/08 23:04 / jlr
Surr: Dibromofluoromethane	112	%REC		80-120		E624	04/22/08 23:04 / jlr
Surr: p-Bromofluorobenzene	95.0	%REC		80-120		E624	04/22/08 23:04 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	04/22/08 23:04 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-008
Client Sample ID: 711

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/14/08 14:50
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	8.4	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.8	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	1.9	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	4.0	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	18.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.4	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	711	711	711	711	
Collection Date:	4/14/2008	1/21/2008	10/8/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-008	C08011074-003	C07100719-004	C07070953-003
Bicarbonate as HCO ₃	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	479	460	489	490
Chloride	mg/L	15	23	18	16
Magnesium	mg/L	492	475	512	515
Nitrogen, Ammonia as N	mg/L	0.36	0.51	0.48	0.75
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	10.7	12.1	11.2	10.1
Sodium	mg/L	98	98.6	100	94.2
Sulfate	mg/L	3470	3190	3470	3480
pH	s. u.	3.91	3.54	3.80	3.10
Solids, Total Dissolved TDS @ 180 C	mg/L	4770	4850	5090	4810
Aluminum	mg/L	0.5	0.4	0.4	0.5
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	0.38	0.38	0.40	0.39
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	6.59	6.34	7.09	6.00
Molybdenum	mg/L	0.2	0.2	0.1	0.1
Nickel	mg/L	0.35	0.35	0.34	0.37
Uranium	mg/L	0.0248	0.0241	0.0240	0.0268
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.01	0.045	0.03	0.05
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	8.4	9.1	7.7	6.8
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.8	1.0	1.2	0.8
Lead 210	pCi/L	0	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	0		
Radium 226	pCi/L	4.0	7.0	3.9	5.1
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.3	0.9	0.9	0.8
Radium 228	pCi/L	18.4	15.3	15.6	16.4
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.5	1.4	2.4	1.2
Thorium 230	pCi/L	0.4	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.8			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08010856-001
 Client Sample ID: 613

Report Date: 03/28/08
 Collection Date: 01/15/08 12:05
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	01/21/08 12:53 / bas
Calcium	387	mg/L	D	0.8		E200.7	02/06/08 17:56 / cp
Chloride	196	mg/L	D	40		E200.7	02/06/08 14:26 / cp
Magnesium	658	mg/L	D	0.8		E200.7	02/06/08 17:56 / cp
Nitrogen, Ammonia as N	269	mg/L	D	4		A4500-NH ₃ G	01/22/08 13:27 / jal
Nitrogen, Nitrate+Nitrite as N	9.1	mg/L	D	0.3		E353.2	01/23/08 12:58 / jal
Potassium	1.3	mg/L		0.5		E200.7	02/06/08 17:56 / cp
Sodium	274	mg/L	D	5		E200.7	02/06/08 17:56 / cp
Sulfate	8380	mg/L	D	20		E200.7	02/06/08 14:26 / cp
PHYSICAL PROPERTIES							
pH	3.40	s.u.		0.01		A4500-H B	01/19/08 10:09 / gg
Solids, Total Dissolved TDS @ 180 C	12200	mg/L		10		A2540 C	01/21/08 12:39 / dd
METALS - TOTAL							
Aluminum	733	mg/L	D	0.2		E200.7	02/06/08 14:26 / cp
Beryllium	0.17	mg/L		0.01		E200.8	01/29/08 02:44 / ts
Cadmium	0.037	mg/L		0.005		E200.8	01/29/08 02:44 / ts
Cobalt	1.82	mg/L		0.01		E200.8	01/29/08 02:44 / ts
Lead	ND	mg/L		0.05		E200.8	01/30/08 03:38 / sml
Manganese	51.7	mg/L		0.01		E200.8	01/29/08 02:44 / ts
Molybdenum	ND	mg/L		0.1		E200.8	01/29/08 02:44 / ts
Nickel	1.88	mg/L		0.05		E200.8	01/29/08 02:44 / ts
Uranium	1.21	mg/L	D	0.0004		E200.8	01/30/08 03:38 / sml
Vanadium	2.3	mg/L		0.1		E200.8	01/29/08 02:44 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/24/08 11:43 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/08 11:19 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	52.5	pCi/L		1.0		E900.1	01/23/08 18:46 / crw
Gross Alpha minus Rn & U Precision (±)	3.0	pCi/L				E900.1	01/23/08 18:46 / crw
Lead 210	6.0	pCi/L		1.0		E909.0M	01/22/08 08:30 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/22/08 08:30 / dm
Radium 226	15.3	pCi/L		0.2		E903.0	01/30/08 18:23 / taj
Radium 226 precision (±)	1.4	pCi/L				E903.0	01/30/08 18:23 / taj
Radium 228	1.8	pCi/L		1.0		RA-05	01/25/08 14:52 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	01/25/08 14:52 / plj
Thorium 230	750	pCi/L		0.2		E907.0	01/28/08 15:30 / dmf
Thorium 230 precision (±)	57	pCi/L				E907.0	01/28/08 15:30 / dmf

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08010856-001
 Client Sample ID 613

Report Date: 03/28/08
 Collection Date: 01/15/08 12:05
 Date Received: 01/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.49	%				Calculation	02/11/08 17:24 / sw
Anions	181	meq/L				Calculation	02/11/08 17:24 / sw
Cations	190	meq/L				Calculation	02/11/08 17:24 / sw
Solids, Total Dissolved Calculated	10700	mg/L				Calculation	02/11/08 17:24 / sw
TDS Balance (0.80 - 1.20)	1.14	dec. %				Calculation	02/11/08 17:24 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/21/08 17:36 / jlr
Bromoform	ND	ug/L		0.50		E624	01/21/08 17:36 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/21/08 17:36 / jlr
Chloroform	144	ug/L	D	5.0		E624	01/21/08 15:43 / jlr
Trihalomethanes, Total	144	ug/L		0.50		E624	01/21/08 17:36 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	01/21/08 17:36 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/21/08 17:36 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	01/21/08 17:36 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/21/08 17:36 / jlr

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040584-001
 Client Sample ID 613

Report Date: 05/22/08
 Collection Date: 04/08/08 11:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/15/08 15:48 / ljl
Calcium	458	mg/L	D	2		E200.7	04/30/08 20:30 / cp
Chloride	183	mg/L		1		A4500-Cl B	04/17/08 17:17 / jl
Magnesium	791	mg/L	D	2		E200.7	04/30/08 20:30 / cp
Nitrogen, Ammonia as N	251	mg/L	D	2		E350.1	04/30/08 11:36 / eli-b
Nitrogen, Nitrate+Nitrite as N	9.6	mg/L		0.1		E353.2	04/19/08 09:01 / eli-b
Potassium	2	mg/L	D	2		E200.7	04/30/08 20:30 / cp
Sodium	305	mg/L	D	2		E200.7	04/30/08 20:30 / cp
Sulfate	9430	mg/L	D	100		A4500-SO4 E	04/18/08 14:23 / ljl
PHYSICAL PROPERTIES							
pH	2.99	s.u.		0.01		A4500-H B	04/14/08 21:08 / dd
Solids, Total Dissolved TDS @ 180 C	12500	mg/L		10		A2540 C	04/14/08 22:41 / dd
METALS - TOTAL							
Aluminum	500	mg/L		0.1		E200.7	05/06/08 15:55 / cp
Beryllium	0.20	mg/L		0.01		E200.7	04/30/08 20:30 / cp
Cadmium	0.036	mg/L		0.005		E200.8	05/02/08 00:27 / sml
Cobalt	2.11	mg/L		0.01		E200.8	05/05/08-19:27 / sml
Lead	ND	mg/L		0.05		E200.8	05/05/08-19:27 / sml
Manganese	62.6	mg/L		0.01		E200.7	05/06/08 15:55 / cp
Molybdenum	ND	mg/L		0.1		E200.8	05/02/08 00:27 / sml
Nickel	2.05	mg/L		0.05		E200.8	05/05/08-19:27 / sml
Uranium	1.44	mg/L		0.0003		E200.8	05/05/08-19:27 / sml
Vanadium	2.4	mg/L		0.1		E200.7	04/30/08 20:30 / cp
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	04/28/08 13:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/16/08 11:33 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	53.6	pCi/L		1.0		E900.1	04/17/08 15:25 / crw
Gross Alpha minus Rn & U Precision (±)	2.7	pCi/L				E900.1	04/17/08 15:25 / crw
Lead 210	0.0	pCi/L	U	1.0		E909.0M	04/18/08 08:00 / dm
Lead 210 precision (±)	1.1	pCi/L				E909.0M	04/18/08 08:00 / dm
Radium 226	7.9	pCi/L				E903.0	05/05/08 09:34 / taj
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/05/08 09:34 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/05/08 09:34 / taj
Radium 228	0.5	pCi/L	U			RA-05	04/28/08 13:27 / plj
Radium 228 precision (±)	0.7	pCi/L				RA-05	04/28/08 13:27 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	04/28/08 13:27 / plj
Thorium 230	798	pCi/L		0.2		E907.0	04/22/08 15:00 / dmf
Thorium 230 precision (±)	58	pCi/L				E907.0	04/22/08 15:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040584-001
 Client Sample ID 613

Report Date: 05/22/08
 Collection Date: 04/08/08 11:15
 Date Received: 04/11/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-5.03	%				Calculation	05/10/08 08:53 / sw
Anions	202	meq/L				Calculation	05/10/08 08:53 / sw
Cations	183	meq/L				Calculation	05/10/08 08:53 / sw
Solids, Total Dissolved Calculated	12000	mg/L				Calculation	05/10/08 08:53 / sw
TDS Balance (0.80 - 1.20)	1.04	dec. %				Calculation	05/10/08 08:53 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/15/08 04:53 / dkh
Bromoform	ND	ug/L		0.50		E624	04/15/08 04:53 / dkh
Chlorodibromomethane	ND	ug/L		0.50		E624	04/15/08 04:53 / dkh
Chloroform	97.6	ug/L	D	5.0		E624	04/15/08 05:32 / dkh
Trihalomethanes, Total	97.6	ug/L		0.50		E624	04/15/08 04:53 / dkh
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	04/15/08 04:53 / dkh
Surr: Dibromofluoromethane	106	%REC		80-120		E624	04/15/08 04:53 / dkh
Surr: p-Bromofluorobenzene	103	%REC		80-120		E624	04/15/08 04:53 / dkh
Surr: Toluene-d8	101	%REC		80-120		E624	04/15/08 04:53 / dkh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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

Well ID:	613	613	613	613
Collection Date:	4/8/2008	1/15/2008	10/8/2007	7/10/2007
Receive Date:	4/9/2008	1/16/2008	10/12/2007	7/13/2007
Report Date:	5/22/2008	3/28/2008	12/4/2007	8/29/2007

Analyte	Units	C08040584-001	C08010856-001	C07100719-001	C07070671-001
Bicarbonate as HCO3	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	458	387	376	455
Chloride	mg/L	183	196	146	146
Magnesium	mg/L	791	658	651	745
Nitrogen, Ammonia as N	mg/L	251	269	247	253
Nitrogen, Nitrate+Nitrite as N	mg/L	9.6	9.1	10.6	9.2
Potassium	mg/L	ND(2)	1.3	0.8	ND(0.5)
Sodium	mg/L	305	274	266	294
Sulfate	mg/L	9430	8380	8300	9260
pH	s.u.	2.99	3.40	2.95	3.06
Solids, Total Dissolved TDS @ 180 C	mg/L	12500	12200	12700	13100
Aluminum	mg/L	500	733	641	688
Beryllium	mg/L	0.20	0.17	0.16	0.16
Cadmium	mg/L	0.036	0.037	0.029	0.032
Cobalt	mg/L	2.11	1.82	1.79	1.88
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	62.6	51.7	50.6	53.6
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	2.05	1.88	1.82	1.90
Uranium	mg/L	1.44	1.21	1.36	1.31
Vanadium	mg/L	2.4	2.3	2.3	2.3
Arsenic-III	mg/L	0.002	ND(0.001)	0.001	0.02
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	53.6	52.5	40.0	18.3
Gross Alpha minus Rn & U Precision (±)	pCi/L	2.7	3.0	2.0	1.2
Lead 210	pCi/L	0.0	6.0	1.6	ND(1.0)
Lead 210 precision (±)	pCi/L	1.1	1.6	1.4	
Radium 226	pCi/L	7.9	15.3	17.2	14.6
Radium 226 precision (±)	pCi/L	0.5	1.4	1.8	1.5
Radium 226 MDC	pCi/L	0.2			
Radium 228	pCi/L	0.5	1.8	ND(1.0)	ND(1.0)
Radium 228 precision (±)	pCi/L	0.7	1.0		
Radium 228 MDC	pCi/L	1.2			
Thorium 230	pCi/L	798	750	706	448
Thorium 230 precision (±)	pCi/L	58	57	27.6	18.8
A/C Balance (± 5)	%	-5.03	2.49	-0.342	0.127
Anions	meq/L	202	181	178	198
Cations	meq/L	183	190	176	198
Solids, Total Dissolved Calculated	mg/L	12000	10700	9790	11100
TDS Balance (0.80 - 1.20)	dec. %	1.04	1.14	1.30	1.18
Trihalomethanes, Total	ug/L	97.6	144	127	121

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-002
 Client Sample ID 708

Report Date: 04/02/08
 Collection Date: 01/21/08 14:10
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	01/28/08 16:36 / bas
Calcium	422	mg/L	D	0.8		E200.7	02/13/08 14:23 / cp
Chloride	37	mg/L	D	4		E200.7	02/13/08 14:23 / cp
Magnesium	553	mg/L	D	0.8		E200.7	02/13/08 14:23 / cp
Nitrogen, Ammonia as N	1.19	mg/L		0.05		A4500-NH ₃ G	01/28/08 10:40 / jal
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	01/29/08 10:37 / jal
Potassium	13.3	mg/L		0.5		E200.7	02/13/08 19:23 / cp
Sodium	111	mg/L		0.5		E200.7	02/13/08 19:23 / cp
Sulfate	3630	mg/L	D	2		E200.7	02/13/08 14:23 / cp
PHYSICAL PROPERTIES							
pH	3.05	s.u.	H	0.01		A4500-H B	01/29/08 10:54 / bas
Solids, Total Dissolved TDS @ 180 C	5680	mg/L		10		A2540 C	01/28/08 14:53 / dd
METALS - TOTAL							
Aluminum	4.2	mg/L		0.1		E200.8	02/07/08 21:54 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 21:54 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 21:54 / ts
Cobalt	0.37	mg/L		0.01		E200.8	02/07/08 21:54 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 21:54 / ts
Manganese	11.4	mg/L		0.01		E200.8	02/07/08 21:54 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/07/08 21:54 / ts
Nickel	0.37	mg/L		0.05		E200.8	02/07/08 21:54 / ts
Uranium	0.0246	mg/L		0.0003		E200.8	02/07/08 21:54 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 21:54 / ts
METALS - SPECIATED							
Arsenic-III	0.003	mg/L		0.001		A3114 B	01/30/08 11:40 / rw
Selenium-IV	0.002	mg/L		0.001		A3114 B	01/29/08 16:06 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	11.6	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.1	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	5.0	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/30/08 09:35 / dm
Radium 226	7.9	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	1.0	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	4.5	pCi/L		1.0		RA-05	01/31/08 11:25 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	01/31/08 11:25 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08011074-002
Client Sample ID: 708

Report Date: 04/02/08
Collection Date: 01/21/08 14:10
Date Received: 01/25/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-2.41	%				Calculation	02/21/08 09:53 / sw
Anions	76.7	meq/L				Calculation	02/21/08 09:53 / sw
Cations	73.1	meq/L				Calculation	02/21/08 09:53 / sw
Solids, Total Dissolved Calculated	4790	mg/L				Calculation	02/21/08 09:53 / sw
TDS Balance (0.80 - 1.20)	1.19	dec. %				Calculation	02/21/08 09:53 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 14:17 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 14:17 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 14:17 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 14:17 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 14:17 / jlr
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		E624	01/30/08 14:17 / jlr
Surr: Dibromofluoromethane	99.0	%REC		80-120		E624	01/30/08 14:17 / jlr
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		E624	01/30/08 14:17 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/30/08 14:17 / jlr

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

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

LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-007
 Client Sample ID: 708

Report Date: 06/09/08
 Collection Date: 04/15/08 11:15
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/24/08 14:06 / ljl
Calcium	461	mg/L		0.5		E200.7	05/08/08 19:31 / cp
Chloride	25	mg/L		1		A4500-Cl B	04/28/08 17:37 / ljl
Magnesium	594	mg/L		0.5		E200.7	05/08/08 19:31 / cp
Nitrogen, Ammonia as N	0.89	mg/L		0.05		E350.1	04/25/08 10:46 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:30 / eli-b
Potassium	12.4	mg/L		0.5		E200.7	05/08/08 19:31 / cp
Sodium	108	mg/L	D	3		E200.7	05/08/08 19:31 / cp
Sulfate	4370	mg/L	D	60		A4500-SO ₄ E	04/24/08 14:27 / jal
PHYSICAL PROPERTIES							
pH	2.95	s.u.		0.01		A4500-H B	04/22/08 16:56 / dd
Solids, Total Dissolved TDS @ 180 C	5610	mg/L		10		A2540 C	04/21/08 18:30 / dd
METALS - TOTAL							
Aluminum	6.4	mg/L		0.1		E200.7	05/08/08 19:31 / cp
Beryllium	0.01	mg/L		0.01		E200.7	05/08/08 19:31 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/16/08 17:11 / sml
Cobalt	0.34	mg/L	D	0.02		E200.7	05/08/08 19:31 / cp
Lead	ND	mg/L		0.05		E200.8	05/16/08 17:11 / sml
Manganese	11.1	mg/L		0.01		E200.7	05/08/08 19:31 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 19:31 / cp
Nickel	0.33	mg/L		0.05		E200.7	05/08/08 19:31 / cp
Uranium	0.0321	mg/L		0.0003		E200.8	05/16/08 17:11 / sml
Vanadium	0.2	mg/L		0.1		E200.7	05/08/08 19:31 / cp
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	05/01/08 13:14 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 12:06 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	10.8	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-18	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	3	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	6.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	9.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-007
Client Sample ID: 708

Report Date: 06/09/08
Collection Date: 04/15/08 11:15
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.0	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.6	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 22:26 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 22:26 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 22:26 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 22:26 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 22:26 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		E624	04/22/08 22:26 / jlr
Surr: Dibromofluoromethane	118	%REC		80-120		E624	04/22/08 22:26 / jlr
Surr: p-Bromofluorobenzene	104	%REC		80-120		E624	04/22/08 22:26 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/22/08 22:26 / jlr

Report Definitions: RL - Analyte reporting limit
QCL - Quality control limit
MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-007
Client Sample ID: 708

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/15/08 11:15
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	10.8	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.0	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-18	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	3.2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	6.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	9.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.0	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.6	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	708	708	708	708	
Collection Date:	4/15/2008	1/21/2008	10/8/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-007	C08011074-002	C07100719-003	C07070953-005
Bicarbonate as HCO3	mg/L	ND(1)	ND(1)	ND(1)	ND(1)
Calcium	mg/L	461	422	461	454
Chloride	mg/L	25	37	28	26
Magnesium	mg/L	594	553	604	605
Nitrogen, Ammonia as N	mg/L	0.89	1.19	1.41	1.74
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	0.1	ND(0.1)	ND(0.1)
Potassium	mg/L	12.4	13.3	12.7	11.8
Sodium	mg/L	108	111	115	111
Sulfate	mg/L	4370	3630	4040	4040
pH	s.u.	2.95	3.05	3.49	3.04
Solids, Total Dissolved TDS @ 180 C	mg/L	5610	5680	5910	5770
Aluminum	mg/L	6.4	4.2	4.1	3.3
Beryllium	mg/L	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	0.34	0.37	0.37	0.37
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	11.1	11.4	11.4	10.1
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.33	0.37	0.34	0.35
Uranium	mg/L	0.0321	0.0246	0.0226	0.0217
Vanadium	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	0.003	0.002	0.02
Selenium-IV	mg/L	ND(0.001)	0.002	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	10.8	11.6	10.4	8.6
Gross Alpha minus Rn & U Precision (±)	pCi/L	1	1.1	1.1	0.8
Lead 210	pCi/L	18	5.0	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	3	1.6		
Radium 226	pCi/L	6.5	7.9	5.6	8.0
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.4	1.0	1.0	0.9
Radium 228	pCi/L	9.2	4.5	6.9	7.0
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.2	1.2	2.2	1.0
Thorium 230	pCi/L	0.0	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.6			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-011
 Client Sample ID: NBL-1

Report Date: 04/02/08
 Collection Date: 01/22/08 13:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	113	mg/L		1		A2320 B	01/28/08 17:55 / bas
Calcium	568	mg/L	D	0.8		E200.7	02/13/08 15:46 / cp
Chloride	57	mg/L	D	4		E200.7	02/13/08 15:46 / cp
Magnesium	252	mg/L	D	0.8		E200.7	02/13/08 15:46 / cp
Nitrogen, Ammonia as N	8.43	mg/L		0.05		A4500-NH ₃ G	01/28/08 12:32 / jal
Nitrogen, Nitrate+Nitrite as N	0.4	mg/L		0.1		E353.2	01/29/08 11:12 / jal
Potassium	15.7	mg/L		0.5		E200.7	02/13/08 20:13 / cp
Sodium	121	mg/L		0.5		E200.7	02/13/08 20:13 / cp
Sulfate	2630	mg/L	D	2		E200.7	02/13/08 15:46 / cp
PHYSICAL PROPERTIES							
pH	5.92	s.u.		0.01		A4500-H B	01/29/08 11:11 / bas
Solids, Total Dissolved TDS @ 180 C	4070	mg/L		10		A2540 C	01/28/08 14:58 / dd
METALS - TOTAL							
Aluminum	2.8	mg/L		0.1		E200.8	02/07/08 23:29 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 23:29 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 23:29 / ts
Cobalt	0.25	mg/L		0.01		E200.8	02/07/08 23:29 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 23:29 / ts
Manganese	7.14	mg/L		0.01		E200.8	02/07/08 23:29 / ts
Molybdenum	1.9	mg/L		0.1		E200.8	02/07/08 23:29 / ts
Nickel	0.32	mg/L		0.05		E200.8	02/07/08 23:29 / ts
Uranium	0.138	mg/L		0.0003		E200.8	02/07/08 23:29 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 23:29 / ts
METALS - SPECIATED							
Arsenic-III	0.969	mg/L	D	0.006		A3114 B	01/30/08 15:05 / rw
Selenium-IV	0.01	mg/L		0.001		A3114 B	01/29/08 16:40 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	16.5	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.3	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	16.1	pCi/L		0.2		E903.0	02/05/08 14:02 / taj
Radium 226 precision (±)	1.9	pCi/L				E903.0	02/05/08 14:02 / taj
Radium 228	10.8	pCi/L		1.0		RA-05	01/31/08 11:25 / plj
Radium 228 precision (±)	2.1	pCi/L				RA-05	01/31/08 11:25 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-011
 Client Sample ID: NBL-1

Report Date: 04/02/08
 Collection Date: 01/22/08 13:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-1.82	%				Calculation	02/21/08 09:56 / sw
Anions	58.3	meq/L				Calculation	02/21/08 09:56 / sw
Cations	56.2	meq/L				Calculation	02/21/08 09:56 / sw
Solids, Total Dissolved Calculated	3710	mg/L				Calculation	02/21/08 09:56 / sw
TDS Balance (0.80 - 1.20)	1.10	dec. %				Calculation	02/21/08 09:56 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 23:53 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 23:53 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 23:53 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 23:53 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 23:53 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	01/30/08 23:53 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/30/08 23:53 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	01/30/08 23:53 / jlr
Surr: Toluene-d8	104	%REC		80-120		E624	01/30/08 23:53 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-004
 Client Sample ID: NBL-1

Report Date: 06/09/08
 Collection Date: 04/15/08 13:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	8	mg/L		1		A2320 B	04/24/08 13:35 / ljl
Calcium	617	mg/L		0.5		E200.7	05/08/08 19:19 / cp
Chloride	48	mg/L		1		A4500-Cl B	04/28/08 17:02 / ljl
Magnesium	270	mg/L		0.5		E200.7	05/08/08 19:19 / cp
Nitrogen, Ammonia as N	3.88	mg/L		0.05		E350.1	04/25/08 10:42 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:26 / eli-b
Potassium	13.6	mg/L		0.5		E200.7	05/08/08 19:19 / cp
Sodium	141	mg/L	D	3		E200.7	05/08/08 19:19 / cp
Sulfate	2760	mg/L	D	30		A4500-SO4 E	04/24/08 14:02 / jal
PHYSICAL PROPERTIES							
pH	4.85	s.u.		0.01		A4500-H B	04/22/08 16:50 / dd
Solids, Total Dissolved TDS @ 180 C	4030	mg/L		10		A2540 C	04/21/08 18:30 / dd
METALS - TOTAL							
Aluminum	2.5	mg/L		0.1		E200.7	05/08/08 19:19 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 19:19 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/16/08 16:17 / sml
Cobalt	0.15	mg/L		0.01		E200.8	05/20/08 03:44 / sml
Lead	ND	mg/L		0.05		E200.8	05/16/08 16:17 / sml
Manganese	6.45	mg/L		0.01		E200.7	05/08/08 19:19 / cp
Molybdenum	1.0	mg/L		0.1		E200.7	05/08/08 19:19 / cp
Nickel	0.21	mg/L		0.05		E200.7	05/08/08 19:19 / cp
Uranium	0.134	mg/L		0.0003		E200.8	05/16/08 16:17 / sml
Vanadium	0.1	mg/L		0.1		E200.7	05/08/08 19:19 / cp
METALS - SPECIATED							
Arsenic-III	0.18	mg/L		0.001		A3114 B	05/05/08 12:10 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 11:56 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	10	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-5	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	7.9	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	12.9	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-004
 Client Sample ID: NBL-1

Report Date: 06/09/08
 Collection Date: 04/15/08 13:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.3	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 17:21 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 17:21 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 17:21 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 17:21 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 17:21 / jlr
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		E624	04/22/08 17:21 / jlr
Surr: Dibromofluoromethane	105	%REC		80-120		E624	04/22/08 17:21 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	04/22/08 17:21 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		E624	04/22/08 17:21 / jlr

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-004
 Client Sample ID: NBL-1

Revised Date: 07/20/08
 Report Date: 06/09/08
 Collection Date: 04/15/08 13:35
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	10.0	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-5.0	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.3	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	7.9	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	12.9	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.1	pCi/L	U	0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.3	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	NBL-1	NBL-1	NBL-1	NBL-1	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/17/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-004	C08011074-011	C07100719-012	C07070953-008
Bicarbonate as HCO ₃	mg/L	8	113	220	207
Calcium	mg/L	617	568	623	632
Chloride	mg/L	48	57	50	54
Magnesium	mg/L	270	252	280	289
Nitrogen, Ammonia as N	mg/L	3.88	8.43	7.1	8.8
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	0.4	ND(0.1)	0.6
Potassium	mg/L	13.6	15.7	13.6	15.4
Sodium	mg/L	141	121	142	148
Sulfate	mg/L	2760	2630	2660	2780
pH	s.u.	4.85	5.92	6.53	6.93
Solids, Total Dissolved TDS @ 180 C	mg/L	4030	4070	4290	4140
Aluminum	mg/L	2.5	2.8	0.6	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	0.15	0.25	0.25	0.32
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	6.45	7.14	6.97	7.49
Molybdenum	mg/L	1.0	1.9	1.4	2.6
Nickel	mg/L	0.21	0.32	0.26	0.32
Uranium	mg/L	0.134	0.138	0.0886	0.111
Vanadium	mg/L	0.1	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.18	0.969	0.61	
Selenium-IV	mg/L	ND(0.001)	0.01	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	10	16.5	12.4	14.2
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.9	1.3	1.1	1.1
Lead 210	pCi/L	-5	ND(1.0)	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2		0	
Radium 226	pCi/L	7.9	16.1	10.4	11.3
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.5	1.9	1.4	1.1
Radium 228	pCi/L	12.9	10.8	10.4	10.4
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.3	2.1	2.2	1.1
Thorium 230	pCi/L	0.1	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.3			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-005
 Client Sample ID EPA-13

Report Date: 04/02/08
 Collection Date: 01/22/08 09:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	84	mg/L		1		A2320 B	01/28/08 16:51 / bas
Calcium	458	mg/L	D	0.8		E200.7	02/13/08 14:32 / cp
Chloride	49	mg/L		1		E200.7	02/13/08 19:33 / cp
Magnesium	774	mg/L	D	0.8		E200.7	02/13/08 14:32 / cp
Nitrogen, Ammonia as N	0.38	mg/L		0.05		A4500-NH3 G	01/28/08 10:52 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 10:44 / jal
Potassium	13.8	mg/L		0.5		E200.7	02/13/08 19:33 / cp
Sodium	139	mg/L		0.5		E200.7	02/13/08 19:33 / cp
Sulfate	4140	mg/L	D	2		E200.7	02/13/08 14:32 / cp
PHYSICAL PROPERTIES							
pH	6.09	s.u.		0.01		A4500-H B	01/29/08 10:58 / bas
Solids, Total Dissolved TDS @ 180 C	6220	mg/L		10		A2540 C	01/28/08 14:55 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/07/08 22:35 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 22:35 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 22:35 / ts
Cobalt	0.06	mg/L		0.01		E200.8	02/07/08 22:35 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 22:35 / ts
Manganese	6.14	mg/L		0.01		E200.8	02/07/08 22:35 / ts
Molybdenum	0.2	mg/L		0.1		E200.8	02/07/08 22:35 / ts
Nickel	0.15	mg/L		0.05		E200.8	02/07/08 22:35 / ts
Uranium	0.0140	mg/L		0.0003		E200.8	02/07/08 22:35 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 22:35 / ts
METALS - SPECIATED							
Arsenic-III	0.240	mg/L	D	0.006		A3114 B	01/30/08 11:50 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:12 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	6.8	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	4.3	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/30/08 09:35 / dm
Radium 226	6.9	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	0.9	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	9.7	pCi/L		1.0		RA-05	01/31/08 12:59 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	01/31/08 12:59 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-005
 Client Sample ID: EPA-13

Report Date: 04/02/08
 Collection Date: 01/22/08 09:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.43	%				Calculation	02/21/08 09:54 / sw
Anions	89.0	meq/L				Calculation	02/21/08 09:54 / sw
Cations	93.4	meq/L				Calculation	02/21/08 09:54 / sw
Solids, Total Dissolved Calculated	5620	mg/L				Calculation	02/21/08 09:54 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/21/08 09:54 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 16:12 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 16:12 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 16:12 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 16:12 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 16:12 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		E624	01/30/08 16:12 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/30/08 16:12 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	01/30/08 16:12 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/30/08 16:12 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-005
 Client Sample ID: EPA-13

Report Date: 06/09/08
 Collection Date: 04/14/08 16:00
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃ ⁻	74	mg/L		1		A2320 B	04/24/08 13:41 / ljl
Calcium	506	mg/L		0.5		E200.7	05/08/08 19:23 / cp
Chloride	37	mg/L		1		A4500-Cl B	04/28/08 17:16 / ljl
Magnesium	843	mg/L		0.5		E200.7	05/08/08 19:23 / cp
Nitrogen, Ammonia as N	0.28	mg/L		0.05		E350.1	04/25/08 10:43 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:27 / eli-b
Potassium	11.9	mg/L		0.5		E200.7	05/08/08 19:23 / cp
Sodium	138	mg/L	D	3		E200.7	05/08/08 19:23 / cp
Sulfate	4740	mg/L	D	60		A4500-SO4 E	04/24/08 14:04 / jal
PHYSICAL PROPERTIES							
pH	6.30	s.u.		0.01		A4500-H B	04/22/08 16:52 / dd
Solids, Total Dissolved TDS @ 180 C	6090	mg/L		10		A2540 C	04/21/08 18:30 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.7	05/08/08 19:23 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 19:23 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/16/08 16:24 / sml
Cobalt	0.06	mg/L		0.01		E200.8	05/20/08 03:51 / sml
Lead	ND	mg/L		0.05		E200.8	05/16/08 16:24 / sml
Manganese	6.68	mg/L		0.01		E200.7	05/08/08 19:23 / cp
Molybdenum	0.2	mg/L		0.1		E200.7	05/08/08 19:23 / cp
Nickel	0.14	mg/L		0.05		E200.7	05/08/08 19:23 / cp
Uranium	0.0133	mg/L		0.0003		E200.8	05/16/08 16:24 / sml
Vanadium	0.2	mg/L		0.1		E200.7	05/08/08 19:23 / cp
METALS - SPECIATED							
Arsenic-III	0.03	mg/L		0.001		A3114 B	05/05/08 12:41 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 11:58 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.7	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	18	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	3	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	4.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	10.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-005
 Client Sample ID: EPA-13

Report Date: 06/09/08
 Collection Date: 04/14/08 16:00
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.2	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/22/08 21:09 / jlr
Bromoform	ND	ug/L		0.50		E624	04/22/08 21:09 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/22/08 21:09 / jlr
Chloroform	ND	ug/L		0.50		E624	04/22/08 21:09 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/22/08 21:09 / jlr
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		E624	04/22/08 21:09 / jlr
Surr: Dibromofluoromethane	118	%REC		80-120		E624	04/22/08 21:09 / jlr
Surr: p-Bromofluorobenzene	92.0	%REC		80-120		E624	04/22/08 21:09 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/22/08 21:09 / jlr

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-005
Client Sample ID: EPA-13

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/14/08 16:00
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.7	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-18	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	3.2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	4.2	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/28/08 12:09 / trs
Radium 228	10.4	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	05/09/08 13:07 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	05/09/08 13:07 / plj
Thorium 230	0.2	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	EPA-13	EPA-13	EPA-13	EPA-13	
Collection Date:	4/14/2008	1/22/2008	10/9/2007	7/17/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-005	C08011074-005	C07100719-006	C07070953-006
Bicarbonate as HCO ₃	mg/L	74	84	79	85
Calcium	mg/L	506	458	476	481
Chloride	mg/L	37	49	41	49
Magnesium	mg/L	843	774	781	802
Nitrogen, Ammonia as N	mg/L	0.28	0.38	0.43	0.52
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Potassium	mg/L	11.9	13.8	12.3	11.6
Sodium	mg/L	138	139	136	138
Sulfate	mg/L	4740	4140	4280	4400
pH	s.u.	6.30	6.09	6.58	6.18
Solids, Total Dissolved TDS @ 180 C	mg/L	6090	6220	6440	6280
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	0.06	0.06	0.07	0.06
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	6.68	6.14	8.13	5.95
Molybdenum	mg/L	0.2	0.2	0.2	0.2
Nickel	mg/L	0.14	0.15	0.16	0.15
Uranium	mg/L	0.0133	0.0140	0.0139	0.0141
Vanadium	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.03	0.240	0.27	0.64
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	5.7	6.8	5.3	5.5
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.7	0.9	1.1	0.7
Lead 210	pCi/L	-18	4.3	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	3	1.6		
Radium 226	pCi/L	4.2	6.9	3.4	4.5
Radium 226 MDC	pCi/L	0.1			
Radium 226 precision (±)	pCi/L	0.3	0.9	0.8	0.7
Radium 228	pCi/L	10.4	9.7	8.2	8.1
Radium 228 MDC	pCi/L	1.4			
Radium 228 precision (±)	pCi/L	1.2	1.3	2.2	1.1
Thorium 230	pCi/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.4			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-009
 Client Sample ID 717

Report Date: 04/02/08
 Collection Date: 01/22/08 10:56
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	74	mg/L		1		A2320 B	01/28/08 17:29 / bas
Calcium	596	mg/L	D	0.8		E200.7	02/13/08 15:40 / cp
Chloride	94	mg/L		1		E200.7	02/13/08 19:47 / cp
Magnesium	436	mg/L	D	0.8		E200.7	02/13/08 15:40 / cp
Nitrogen, Ammonia as N	68.5	mg/L	D	0.4		A4500-NH ₃ G	01/28/08 11:18 / jal
Nitrogen, Nitrate+Nitrite as N	37.2	mg/L	D	0.3		E353.2	01/29/08 11:02 / jal
Potassium	22.9	mg/L		0.5		E200.7	02/13/08 19:47 / cp
Sodium	161	mg/L		0.5		E200.7	02/13/08 19:47 / cp
Sulfate	3390	mg/L	D	2		E200.7	02/13/08 15:40 / cp
PHYSICAL PROPERTIES							
pH	5.90	s.u.		0.01		A4500-H B	01/29/08 11:06 / bas
Solids, Total Dissolved TDS @ 180 C	5050	mg/L		10		A2540 C	01/28/08 14:57 / dd
METALS - TOTAL							
Aluminum	3.9	mg/L		0.1		E200.8	02/07/08 23:02 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 23:02 / ts
Cadmium	0.005	mg/L		0.005		E200.8	02/07/08 23:02 / ts
Cobalt	0.55	mg/L		0.01		E200.8	02/07/08 23:02 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 23:02 / ts
Manganese	20.7	mg/L		0.01		E200.8	02/07/08 23:02 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/07/08 23:02 / ts
Nickel	0.43	mg/L		0.05		E200.8	02/07/08 23:02 / ts
Uranium	0.0017	mg/L		0.0003		E200.8	02/07/08 23:02 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 23:02 / ts
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		A3114 B	01/30/08 11:59 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08-16:21 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	26.4	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	1.6	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	5.3	pCi/L		1.0		E909.0M	02/28/08 08:15 / dm
Lead 210 precision (±)	1.4	pCi/L				E909.0M	02/28/08 08:15 / dm
Radium 226	25.3	pCi/L		0.2		E903.0	02/05/08 14:02 / taj
Radium 226 precision (±)	2.0	pCi/L				E903.0	02/05/08 14:02 / taj
Radium 228	29.7	pCi/L		1.0		RA-05	01/31/08 12:59 / plj
Radium 228 precision (±)	1.6	pCi/L				RA-05	01/31/08 12:59 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08011074-009
Client Sample ID: 717

Report Date: 04/02/08
Collection Date: 01/22/08 10:56
Date Received: 01/25/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.95	%				Calculation	02/21/08 09:56 / sw
Anions	77.0	meq/L				Calculation	02/21/08 09:56 / sw
Cations	80.1	meq/L				Calculation	02/21/08 09:56 / sw
Solids, Total Dissolved Calculated	4920	mg/L				Calculation	02/21/08 09:56 / sw
TDS Balance (0.80 - 1.20)	1.03	dec. %				Calculation	02/21/08 09:56 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 22:36 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 22:36 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 22:36 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 22:36 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 22:36 / jlr
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		E624	01/30/08 22:36 / jlr
Surr: Dibromofluoromethane	111	%REC		80-120		E624	01/30/08 22:36 / jlr
Surr: p-Bromofluorobenzene	91.0	%REC		80-120		E624	01/30/08 22:36 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/30/08 22:36 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-010
 Client Sample ID: 717

Report Date: 06/09/08
 Collection Date: 04/15/08 10:00
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	58	mg/L		1		A2320 B	04/24/08 14:20 / ljl
Calcium	597	mg/L		0.5		E200.7	05/08/08 20:28 / cp
Chloride	72	mg/L		1		A4500-Cl B	04/29/08 13:18 / ljl
Magnesium	473	mg/L		0.5		E200.7	05/08/08 20:28 / cp
Nitrogen, Ammonia as N	71.0	mg/L	D	0.4		E350.1	04/30/08 11:38 / eli-b
Nitrogen, Nitrate+Nitrite as N	44.8	mg/L		0.1		E353.2	04/28/08 11:32 / eli-b
Potassium	21.5	mg/L		0.5		E200.7	05/08/08 20:28 / cp
Sodium	186	mg/L	D	3		E200.7	05/08/08 20:28 / cp
Sulfate	3950	mg/L	D	60		A4500-SO4 E	04/24/08 14:33 / jal
PHYSICAL PROPERTIES							
pH	5.80	s.u.		0.01		A4500-H B	04/22/08 18:07 / dd
Solids, Total Dissolved TDS @ 180 C	5560	mg/L		10		A2540 C	04/21/08 18:31 / dd
METALS - TOTAL							
Aluminum	7.6	mg/L		0.1		E200.7	05/08/08 20:28 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 20:28 / cp
Cadmium	0.006	mg/L		0.005		E200.8	05/16/08 17:31 / sml
Cobalt	0.65	mg/L	D	0.02		E200.7	05/08/08 20:28 / cp
Lead	ND	mg/L		0.05		E200.8	05/16/08 17:31 / sml
Manganese	23.7	mg/L		0.01		E200.7	05/08/08 20:28 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 20:28 / cp
Nickel	0.55	mg/L		0.05		E200.7	05/08/08 20:28 / cp
Uranium	0.0011	mg/L		0.0003		E200.8	05/16/08 17:31 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/16/08 17:31 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	05/01/08 13:53 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 12:17 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	22.1	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.4	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-3	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	18.6	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 precision (±)	0.8	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 228	22.8	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 MDC	1	pCi/L				RA-05	05/12/08 10:43 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-010
Client Sample ID: 717

Report Date: 06/09/08
Collection Date: 04/15/08 10:00
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.6	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/23/08 00:20 / jlr
Bromoform	ND	ug/L		0.50		E624	04/23/08 00:20 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/23/08 00:20 / jlr
Chloroform	ND	ug/L		0.50		E624	04/23/08 00:20 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/23/08 00:20 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/23/08 00:20 / jlr
Surr: Dibromofluoromethane	107	%REC		80-120		E624	04/23/08 00:20 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		E624	04/23/08 00:20 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/23/08 00:20 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-010
Client Sample ID: 717

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/15/08 10:00
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	22.1	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	1.4	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-3.3	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2.1	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	18.6	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 precision (±)	0.8	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 228	22.8	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/12/08 10:43 / plj
Thorium 230	0.6	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	04/28/08 15:00 / dmf

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.

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

Well ID:	717	717	717	717	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/16/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-010	C08011074-009	C07100719-010	C07070953-002
Bicarbonate as HCO3	mg/L	58	74	92	144
Calcium	mg/L	597	596	633	663
Chloride	mg/L	72	94	79	74
Magnesium	mg/L	473	436	448	449
Nitrogen, Ammonia as N	mg/L	71.0	68.5	63.6	58.4
Nitrogen, Nitrate+Nitrite as N	mg/L	44.8	37.2	31.1	35
Potassium	mg/L	21.5	22.9	19.6	19.6
Sodium	mg/L	186	161	162	170
Sulfate	mg/L	3950	3390	3440	3550
pH	s. u.	5.80	5.90	6.10	6.11
Solids, Total Dissolved TDS @ 180 C	mg/L	5560	5050	5420	4980
Aluminum	mg/L	7.6	3.9	3.2	1.9
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	0.006	0.005	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.65	0.55	0.50	0.40
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	23.7	20.7	17.2	16.3
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.55	0.43	0.34	0.27
Uranium	mg/L	0.0011	0.0017	0.0036	0.0033
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	0.002	0.001	0.005
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	22.1	26.4	20.9	19.3
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.4	1.6	1.5	1.2
Lead 210	pCi/L	-3	5.3	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.4		
Radium 226	pCi/L	18.6	25.3	14.3	20.4
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.8	2.0	1.6	1.5
Radium 228	pCi/L	22.8	29.7	25.2	28.7
Radium 228 MDC	pCi/L	1			
Radium 228 precision (±)	pCi/L	1.3	1.6	2.5	1.4
Thorium 230	pCi/L	0.6	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.9			
Trihalomethanes, Total		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-006
 Client Sample ID 719

Report Date: 04/02/08
 Collection Date: 01/22/08 09:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	01/28/08 16:54 / bas
Calcium	476	mg/L	D	0.8		E200.7	02/13/08 14:36 / cp
Chloride	34	mg/L		1		E200.7	02/13/08 19:37 / cp
Magnesium	407	mg/L	D	0.8		E200.7	02/13/08 14:36 / cp
Nitrogen, Ammonia as N	0.89	mg/L		0.05		A4500-NH ₃ G	01/28/08 10:54 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 10:55 / jal
Potassium	13.0	mg/L		0.5		E200.7	02/13/08 19:37 / cp
Sodium	135	mg/L		0.5		E200.7	02/13/08 19:37 / cp
Sulfate	2890	mg/L	D	2		E200.7	02/13/08 14:36 / cp
PHYSICAL PROPERTIES							
pH	3.83	s.u.		0.01		A4500-H B	01/29/08 10:59 / bas
Solids, Total Dissolved TDS @ 180 C	4390	mg/L		10		A2540 C	01/28/08 14:56 / dd
METALS - TOTAL							
Aluminum	1.6	mg/L		0.1		E200.8	02/07/08 22:42 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 22:42 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 22:42 / ts
Cobalt	0.53	mg/L		0.01		E200.8	02/07/08 22:42 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 22:42 / ts
Manganese	5.32	mg/L		0.01		E200.8	02/07/08 22:42 / ts
Molybdenum	ND	mg/L		0.1		E200.8	02/07/08 22:42 / ts
Nickel	0.56	mg/L		0.05		E200.8	02/07/08 22:42 / ts
Uranium	0.0221	mg/L		0.0003		E200.8	02/07/08 22:42 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 22:42 / ts
METALS - SPECIATED							
Arsenic-III	0.003	mg/L		0.001		A3114 B	01/30/08 11:52 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:14 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.3	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	0.8	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	8.1	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Lead 210 precision (±)	1.9	pCi/L				E909.0M	01/30/08 09:35 / dm
Radium 226	4.8	pCi/L		0.2		E903.0	02/05/08 12:03 / taj
Radium 226 precision (±)	0.8	pCi/L				E903.0	02/05/08 12:03 / taj
Radium 228	12.6	pCi/L		1.0		RA-05	01/31/08 12:59 / plj
Radium 228 precision (±)	1.3	pCi/L				RA-05	01/31/08 12:59 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-006
 Client Sample ID: 719

Report Date: 04/02/08
 Collection Date: 01/22/08 09:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	2.41	%				Calculation	02/21/08 09:55 / sw
Anions	61.1	meq/L				Calculation	02/21/08 09:55 / sw
Cations	64.1	meq/L				Calculation	02/21/08 09:55 / sw
Solids, Total Dissolved Calculated	3960	mg/L				Calculation	02/21/08 09:55 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/21/08 09:55 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 20:40 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 20:40 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 20:40 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 20:40 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 20:40 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	01/30/08 20:40 / jlr
Surr: Dibromofluoromethane	108	%REC		80-120		E624	01/30/08 20:40 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/30/08 20:40 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/30/08 20:40 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08040891-011
 Client Sample ID: 719

Report Date: 06/09/08
 Collection Date: 04/15/08 08:50
 Date Received: 04/18/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate, as HCO3	ND	mg/L		1		A2320 B	04/24/08 14:37 / ljl
Calcium	510	mg/L		0.5		E200.7	05/08/08 20:32 / cp
Chloride	27	mg/L		1		A4500-Cl B	04/29/08 13:36 / ljl
Magnesium	426	mg/L		0.5		E200.7	05/08/08 20:32 / cp
Nitrogen, Ammonia as N	0.50	mg/L		0.05		E350.1	04/25/08 10:50 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/28/08 11:46 / eli-b
Potassium	12.0	mg/L		0.5		E200.7	05/08/08 20:32 / cp
Sodium	138	mg/L	D	3		E200.7	05/08/08 20:32 / cp
Sulfate	3490	mg/L	D	60		A4500-SO4 E	04/24/08 14:36 / jal
PHYSICAL PROPERTIES							
pH	3.59	s.u.		0.01		A4500-H B	04/22/08 18:08 / dd
Solids, Total Dissolved TDS @ 180 C	4420	mg/L		10		A2540 C	04/21/08 18:32 / dd
METALS - TOTAL							
Aluminum	1.7	mg/L		0.1		E200.7	05/08/08 20:32 / cp
Beryllium	ND	mg/L		0.01		E200.7	05/08/08 20:32 / cp
Cadmium	ND	mg/L		0.005		E200.8	05/16/08 17:38 / sml
Cobalt	0.56	mg/L	D	0.02		E200.7	05/08/08 20:32 / cp
Lead	ND	mg/L		0.05		E200.8	05/16/08 17:38 / sml
Manganese	5.74	mg/L		0.01		E200.7	05/08/08 20:32 / cp
Molybdenum	ND	mg/L		0.1		E200.7	05/08/08 20:32 / cp
Nickel	0.60	mg/L		0.05		E200.7	05/08/08 20:32 / cp
Uranium	0.0184	mg/L		0.0003		E200.8	05/16/08 17:38 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/16/08 17:38 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	05/01/08 14:00 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/30/08 12:19 / ae
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.1	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-1	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	2	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	2.5	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 228	11.7	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 precision (±)	1	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 MDC	1	pCi/L				RA-05	05/12/08 10:43 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-011
Client Sample ID: 719

Report Date: 06/09/08
Collection Date: 04/15/08 08:50
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.4	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/23/08 00:59 / jlr
Bromoform	ND	ug/L		0.50		E624	04/23/08 00:59 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/23/08 00:59 / jlr
Chloroform	ND	ug/L		0.50		E624	04/23/08 00:59 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/23/08 00:59 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/23/08 00:59 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	04/23/08 00:59 / jlr
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		E624	04/23/08 00:59 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	04/23/08 00:59 / 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.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08040891-011
Client Sample ID: 719

Revised Date: 07/20/08
Report Date: 06/09/08
Collection Date: 04/15/08 08:50
Date Received: 04/18/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.1	pCi/L		1.0		E900.1	05/12/08 12:49 / crw
Gross Alpha minus Rn & U Precision (±)	0.7	pCi/L				E900.1	05/12/08 12:49 / crw
Lead 210	-0.7	pCi/L	U	1.0		E909.0M	04/29/08 10:15 / dm
Lead 210 precision (±)	1.8	pCi/L				E909.0M	04/29/08 10:15 / dm
Radium 226	2.5	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 13:38 / taj
Radium 228	11.7	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	05/12/08 10:43 / plj
Radium 228 MDC	1.0	pCi/L				RA-05	05/12/08 10:43 / plj
Thorium 230	0.4	pCi/L		0.2		E907.0	04/28/08 15:00 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E907.0	04/28/08 15:00 / dmf

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

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

Well ID:	719	719	719	719	
Collection Date:	4/15/2008	1/22/2008	10/9/2007	7/17/2007	
Receive Date:	4/18/2008	1/25/2008	10/12/2007	7/20/2007	
Report Date:	6/9/2008	4/2/2008	12/4/2007	9/6/2007	
Analyte	Units	C08040891-011	C08011074-006	C07100719-008	C07070953-007
Bicarbonate as HCO ₃	mg/L	ND(1)	ND(1)	ND(1)	7
Calcium	mg/L	510	476	496	519
Chloride	mg/L	27	34	29	27
Magnesium	mg/L	426	407	371	394
Nitrogen, Ammonia as N	mg/L	0.50	0.89	0.62	1.17
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.1)	0.1	ND(0.1)
Potassium	mg/L	12.0	13.0	9.8	9.7
Sodium	mg/L	138	135	117	123
Sulfate	mg/L	3490	2890	2730	2960
pH	s.u.	3.59	3.83	4.40	5.03
Solids, Total Dissolved TDS @ 180 C	mg/L	4420	4390	4250	4130
Aluminum	mg/L	1.7	1.6	0.9	0.8
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	0.56	0.53	0.19	0.13
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	5.74	5.32	4.49	3.33
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.60	0.56	0.22	0.16
Uranium	mg/L	0.0184	0.0221	0.0103	0.0092
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	0.003	0.001	0.003
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	5.1	5.3	4.2	4.3
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.7	0.8	0.7	0.6
Lead 210	pCi/L	-1	8.1	ND(1.0)	ND(1.0)
Lead 210 precision (±)	pCi/L	2	1.9		
Radium 226	pCi/L	2.5	4.8	2.0	2.7
Radium 226 MDC	pCi/L	0.2			
Radium 226 precision (±)	pCi/L	0.3	0.8	0.7	0.5
Radium 228	pCi/L	11.7	12.6	8.7	9.3
Radium 228 MDC	pCi/L	1			
Radium 228 precision (±)	pCi/L	1	1.3	2.2	1.1
Thorium 230	pCi/L	0.4	ND(0.2)	ND(0.2)	ND(0.2)
Thorium 230 precision (±)	pCi/L	0.4			
Trihalomethanes, Total		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.**

SEMI-ANNUAL GROUND WATER MONITORING REPORT
SUPPLEMENTAL QUARTERLY SAMPLING
DURING JANUARY OF 2008

ZONE-3

PB-2

PB-3

NBL-2

RW-A

RW-11



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-013
 Client Sample ID: PB-2

Report Date: 04/02/08
 Collection Date: 01/22/08 14:50
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	140	mg/L		1		A2320 B	01/28/08 18:08 / bas
Calcium	518	mg/L	D	0.8		E200.7	02/13/08 15:53 / cp
Chloride	40	mg/L	D	4		E200.7	02/13/08 15:53 / cp
Magnesium	318	mg/L	D	0.8		E200.7	02/13/08 15:53 / cp
Nitrogen, Ammonia as N	4.8	mg/L	D	0.1		A4500-NH3-G	01/28/08 12:52 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/29/08 11:17 / jal
Potassium	11.3	mg/L		0.5		E200.7	02/13/08 20:19 / cp
Sodium	122	mg/L		0.5		E200.7	02/13/08 20:19 / cp
Sulfate	2570	mg/L	D	2		E200.7	02/13/08 15:53 / cp
PHYSICAL PROPERTIES							
pH	6.57	s.u.		0.01		A4500-H B	01/29/08 11:25 / bas
Solids, Total Dissolved TDS @ 180 C	4130	mg/L		10		A2540 C	01/28/08 14:59 / dd
METALS - TOTAL							
Aluminum	0.9	mg/L		0.1		E200.8	02/08/08 00:03 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/08/08 00:03 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/08/08 00:03 / ts
Cobalt	0.26	mg/L		0.01		E200.8	02/08/08 00:03 / ts
Lead	ND	mg/L		0.05		E200.8	02/08/08 00:03 / ts
Manganese	5.59	mg/L		0.01		E200.8	02/08/08 00:03 / ts
Molybdenum	0.5	mg/L		0.1		E200.8	02/08/08 00:03 / ts
Nickel	0.32	mg/L		0.05		E200.8	02/08/08 00:03 / ts
Uranium	0.102	mg/L		0.0003		E200.8	02/08/08 00:03 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/08/08 00:03 / ts
METALS - SPECIATED							
Arsenic-III	0.050	mg/L		0.001		A3114 B	01/30/08 15:11 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:44 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	17.5	pCi/L		1.0		E900.1	02/11/08 14:15 / crw
Gross Alpha minus Rn & U Precision (±)	1.3	pCi/L				E900.1	02/11/08 14:15 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	15.6	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	1.5	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	12.1	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-013
 Client Sample ID: PB-2

Report Date: 04/02/08
 Collection Date: 01/22/08 14:50
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	1.23	%				Calculation	02/21/08 09:57 / sw
Anions	57.0	meq/L				Calculation	02/21/08 09:57 / sw
Cations	58.5	meq/L				Calculation	02/21/08 09:57 / sw
Solids, Total Dissolved Calculated	3660	mg/L				Calculation	02/21/08 09:57 / sw
TDS Balance (0.80 - 1.20)	1.13	dec. %				Calculation	02/21/08 09:57 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/31/08 01:10 / jlr
Bromoform	ND	ug/L		0.50		E624	01/31/08 01:10 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/31/08 01:10 / jlr
Chloroform	ND	ug/L		0.50		E624	01/31/08 01:10 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/31/08 01:10 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		E624	01/31/08 01:10 / jlr
Surr: Dibromofluoromethane	110	%REC		80-120		E624	01/31/08 01:10 / jlr
Surr: p-Bromofluorobenzene	93.0	%REC		80-120		E624	01/31/08 01:10 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/31/08 01:10 / jlr

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

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

UNC Mining and Milling ChurchRock Operations
GroundWater Monitoring Summary: EW-2-4-2005 Monitor Wells

Well ID:	PB-2	PB-2	PB-2	PB-2	
Collection Date:	1/22/2008	10/9/2007	7/17/2007	4/17/2007	
Receive Date:	1/25/2008	10/10/2007	7/20/2007	4/20/2007	
Report Date:	4/2/2008	11/10/2007	8/13/2007	5/3/2007	
Analyte	Units	C08011074-013	C07100716-003	C07070965-003	C07040992-003
Bicarbonate as HCO ₃	mg/L	140	167	160	156
Calcium	mg/L	518			
Chloride	mg/L	40	35	59	37
Magnesium	mg/L	318			
Nitrogen, Ammonia as N	mg/L	4.8			
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)			
Potassium	mg/L	11.3			
Sodium	mg/L	122			
Sulfate	mg/L	2570			
pH	s.u.	6.57	7.24	6.52	6.38
Solids, Total Dissolved TDS @ 180 C	mg/L	4130	4150	4110	4270
Aluminum	mg/L	0.9			
Beryllium	mg/L	ND(0.01)			
Cadmium	mg/L	ND(0.005)			
Cobalt	mg/L	0.26			
Lead	mg/L	ND(0.05)			
Manganese	mg/L	5.59			
Molybdenum	mg/L	0.5			
Nickel	mg/L	0.32			
Uranium	mg/L	0.102			
Vanadium	mg/L	ND(0.1)			
Arsenic-III	mg/L	0.050			
Selenium-IV	mg/L	ND(0.001)			
Gross Alpha minus Rn & U	pCi/L	17.5			
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.3			
Lead 210	pCi/L	ND(1.0)			
Radium 226	pCi/L	15.6			
Radium 226 precision (±)	pCi/L	1.5			
Radium 228	pCi/L	12.1			
Radium 228 precision (±)	pCi/L	1.5			
Thorium 230	pCi/L	ND(0.2)			
A/C Balance (± 5)	%	1.23			
Anions	meq/L	57.0			
Cations	meq/L	58.5			
Solids, Total Dissolved Calculated	mg/L	3660			
TDS Balance (0.80 - 1.20)	dec. %	1.13			
Trihalomethanes, Total	ug/L	ND(0.50)			

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-012
 Client Sample ID: PB-3

Report Date: 04/02/08
 Collection Date: 01/22/08 14:00
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	347	mg/L		1		A2320 B	01/28/08 18:02 / bas
Calcium	613	mg/L	D	0.8		E200.7	02/13/08 15:50 / cp
Chloride	64	mg/L	D	4		E200.7	02/13/08 15:50 / cp
Magnesium	250	mg/L	D	0.8		E200.7	02/13/08 15:50 / cp
Nitrogen, Ammonia as N	9.8	mg/L	D	0.1		A4500-NH3 G	01/28/08 12:50 / jal
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	01/29/08 11:14 / jal
Potassium	13.4	mg/L		0.5		E200.7	02/13/08 20:16 / cp
Sodium	106	mg/L		0.5		E200.7	02/13/08 20:16 / cp
Sulfate	2370	mg/L	D	2		E200.7	02/13/08 15:50 / cp
PHYSICAL PROPERTIES							
pH	7.10	s.u.		0.01		A4500-H B	01/29/08 11:24 / bas
Solids, Total Dissolved TDS @ 180 C	3860	mg/L		10		A2540 C	01/28/08 14:58 / dd
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	02/07/08 23:56 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 23:56 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 23:56 / ts
Cobalt	0.14	mg/L		0.01		E200.8	02/07/08 23:56 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 23:56 / ts
Manganese	7.67	mg/L		0.01		E200.8	02/07/08 23:56 / ts
Molybdenum	0.5	mg/L		0.1		E200.8	02/07/08 23:56 / ts
Nickel	0.17	mg/L		0.05		E200.8	02/07/08 23:56 / ts
Uranium	0.138	mg/L		0.0003		E200.8	02/07/08 23:56 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 23:56 / ts
METALS - SPECIATED							
Arsenic-III	0.155	mg/L		0.001		A3114 B	01/30/08 15:09 / rw
Selenium-IV	0.001	mg/L		0.001		A3114 B	01/29/08 16:42 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	13.1	pCi/L		1.0		E900.1	02/11/08 14:15 / crw
Gross Alpha minus Rn & U Precision (±)	1.2	pCi/L				E900.1	02/11/08 14:15 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	13.7	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	1.3	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	15.3	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 3
Lab ID: C08011074-012
Client Sample ID: PB-3

Report Date: 04/02/08
Collection Date: 01/22/08 14:00
Date Received: 01/25/08
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.387	%				Calculation	02/21/08 09:57 / sw
Anions	56.9	meq/L				Calculation	02/21/08 09:57 / sw
Cations	57.4	meq/L				Calculation	02/21/08 09:57 / sw
Solids, Total Dissolved Calculated	3600	mg/L				Calculation	02/21/08 09:57 / sw
TDS Balance (0.80 - 1.20)	1.07	dec. %				Calculation	02/21/08 09:57 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/31/08 00:31 / jlr
Bromoform	ND	ug/L		0.50		E624	01/31/08 00:31 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/31/08 00:31 / jlr
Chloroform	ND	ug/L		0.50		E624	01/31/08 00:31 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/31/08 00:31 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		E624	01/31/08 00:31 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	01/31/08 00:31 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/31/08 00:31 / jlr
Surr: Toluene-d8	105	%REC		80-120		E624	01/31/08 00:31 / jlr

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

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



**UNC Mining and Milling ChurchRock Operations
 GroundWater Monitoring Summary: PB Monitor Wells**

Well ID:	PB-3	PB-3	PB-3	PB-3
Collection Date:	1/22/2008	10/9/2007	7/17/2007	4/17/2007
Receive Date:	1/25/2008	10/10/2007	7/20/2007	4/20/2007
Report Date:	4/2/2008	11/10/2007	8/13/2007	5/3/2007

Analyte	Units	C08011074-012	C07100716-001	C07070965-001	C07040992-001
Bicarbonate as HCO3	mg/L	347	307	300	339
Calcium	mg/L	613			
Chloride	mg/L	64	55	53	54
Magnesium	mg/L	250			
Nitrogen, Ammonia as N	mg/L	9.8			
Nitrogen, Nitrate+Nitrite as N	mg/L	0.7			
Potassium	mg/L	13.4			
Sodium	mg/L	106			
Sulfate	mg/L	2370			
pH	s.u.	7.10	7.14	7.31	7.22
Solids, Total Dissolved TDS @ 180 C	mg/L	3860	4110	3950	4150
Aluminum	mg/L	0.2			
Beryllium	mg/L	ND(0.01)			
Cadmium	mg/L	ND(0.005)			
Cobalt	mg/L	0.14			
Lead	mg/L	ND(0.05)			
Manganese	mg/L	7.67			
Molybdenum	mg/L	0.5			
Nickel	mg/L	0.17			
Uranium	mg/L	0.138			
Vanadium	mg/L	ND(0.1)			
Arsenic-III	mg/L	0.155			
Selenium-IV	mg/L	0.001			
Gross Alpha minus Rn & U	pCi/L	13.1			
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.2			
Lead 210	pCi/L	ND(1.0)			
Radium 226	pCi/L	13.7			
Radium 226 precision (±)	pCi/L	1.3			
Radium 228	pCi/L	15.3			
Radium 228 precision (±)	pCi/L	1.5			
Thorium 230	pCi/L	ND(0.2)			
A/C Balance (± 5)	%	0.387			
Anions	meq/L	56.9			
Cations	meq/L	57.4			
Solids, Total Dissolved Calculated	mg/L	3600			
TDS Balance (0.80 - 1.20)	dec. %	1.07			
Trihalomethanes, Total	ug/L	ND(0.50)			

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-010
 Client Sample ID: NBL-2

Report Date: 04/02/08
 Collection Date: 01/22/08 11:33
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	321	mg/L		1		A2320 B	01/28/08 17:49 / bas
Calcium	649	mg/L	D	0.8		E200.7	02/13/08 15:43 / cp
Chloride	42	mg/L		1		E200.7	02/19/08 20:52 / cp
Magnesium	156	mg/L		0.5		E200.7	02/13/08 20:09 / cp
Nitrogen, Ammonia as N	0.07	mg/L		0.05		A4500-NH3 G	01/28/08 11:08 / jal
Nitrogen, Nitrate+Nitrite as N	14.5	mg/L		0.2		E353.2	01/29/08 11:04 / jal
Potassium	8.1	mg/L		0.5		E200.7	02/13/08 20:09 / cp
Sodium	133	mg/L		0.5		E200.7	02/13/08 20:09 / cp
Sulfate	2100	mg/L	D	2		E200.7	02/13/08 15:43 / cp
PHYSICAL PROPERTIES							
pH	6.84	s.u.		0.01		A4500-H B	01/29/08 11:10 / bas
Solids, Total Dissolved TDS @ 180 C	3410	mg/L		10		A2540 C	01/28/08 14:57 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/07/08 23:09 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/07/08 23:09 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/07/08 23:09 / ts
Cobalt	0.02	mg/L		0.01		E200.8	02/07/08 23:09 / ts
Lead	ND	mg/L		0.05		E200.8	02/07/08 23:09 / ts
Manganese	1.02	mg/L		0.01		E200.8	02/07/08 23:09 / ts
Molybdenum	0.4	mg/L		0.1		E200.8	02/07/08 23:09 / ts
Nickel	ND	mg/L		0.05		E200.8	02/07/08 23:09 / ts
Uranium	0.361	mg/L		0.0003		E200.8	02/07/08 23:09 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/07/08 23:09 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 12:01 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:23 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	11.7	pCi/L		1.0		E900.1	02/11/08 12:36 / crw
Gross Alpha minus Rn & U Precision (±)	2.1	pCi/L				E900.1	02/11/08 12:36 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	7.6	pCi/L		0.2		E903.0	02/05/08 14:02 / taj
Radium 226 precision (±)	1.3	pCi/L				E903.0	02/05/08 14:02 / taj
Radium 228	26.1	pCi/L		1.0		RA-05	01/31/08 12:59 / plj
Radium 228 precision (±)	2.3	pCi/L				RA-05	01/31/08 12:59 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-010
 Client Sample ID: NBL-2

Report Date: 04/02/08
 Collection Date: 01/22/08 11:33
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.003	%				Calculation	02/21/08 09:56 / sw
Anions	51.3	meq/L				Calculation	02/21/08 09:56 / sw
Cations	51.3	meq/L				Calculation	02/21/08 09:56 / sw
Solids, Total Dissolved Calculated	3310	mg/L				Calculation	02/21/08 09:56 / sw
TDS Balance (0.80 - 1.20)	1.03	dec. %				Calculation	02/21/08 09:56 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/30/08 23:15 / jlr
Bromoform	ND	ug/L		0.50		E624	01/30/08 23:15 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/30/08 23:15 / jlr
Chloroform	ND	ug/L		0.50		E624	01/30/08 23:15 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/30/08 23:15 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		E624	01/30/08 23:15 / jlr
Surr: Dibromofluoromethane	104	%REC		80-120		E624	01/30/08 23:15 / jlr
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		E624	01/30/08 23:15 / jlr
Surr: Toluene-d8	103	%REC		80-120		E624	01/30/08 23:15 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-016
 Client Sample ID: RW-A

Report Date: 04/02/08
 Collection Date: 01/23/08 09:05
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	378	mg/L		1		A2320 B	01/28/08 18:26 / bas
Calcium	599	mg/L	D	0.8		E200.7	02/13/08 16:03 / cp
Chloride	47	mg/L	D	4		E200.7	02/13/08 16:03 / cp
Magnesium	192	mg/L		0.5		E200.7	02/13/08 20:29 / cp
Nitrogen, Ammonia as N	3.88	mg/L		0.05		A4500-NH3 G	01/28/08 11:34 / jal
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	01/29/08 11:32 / jal
Potassium	9.6	mg/L		0.5		E200.7	02/13/08 20:29 / cp
Sodium	117	mg/L		0.5		E200.7	02/13/08 20:29 / cp
Sulfate	2080	mg/L	D	2		E200.7	02/13/08 16:03 / cp
PHYSICAL PROPERTIES							
pH	6.81	s.u.		0.01		A4500-H B	01/29/08 11:31 / bas
Solids, Total Dissolved TDS @ 180 C	3590	mg/L		10		A2540 C	01/28/08 15:01 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/08/08 01:52 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/08/08 01:52 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/08/08 01:52 / ts
Cobalt	0.09	mg/L		0.01		E200.8	02/08/08 01:52 / ts
Lead	ND	mg/L		0.05		E200.8	02/08/08 01:52 / ts
Manganese	3.95	mg/L		0.01		E200.8	02/08/08 01:52 / ts
Molybdenum	0.2	mg/L		0.1		E200.8	02/08/08 01:52 / ts
Nickel	0.12	mg/L		0.05		E200.8	02/08/08 01:52 / ts
Uranium	0.162	mg/L		0.0003		E200.8	02/08/08 01:52 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/08/08 01:52 / ts
METALS - SPECIATED							
Arsenic-III	0.001	mg/L		0.001		A3114 B	01/30/08 15:18 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:51 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	15.0	pCi/L		1.0		E900.1	02/11/08 14:15 / crw
Gross Alpha minus Rn & U Precision (±)	1.2	pCi/L				E900.1	02/11/08 14:15 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	14.7	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	1.4	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	21.8	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Radium 228 precision (±)	1.6	pCi/L				RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-016
 Client Sample ID: RW-A

Report Date: 04/02/08
 Collection Date: 01/23/08 09:05
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	0.651	%				Calculation	02/21/08 09:59 / sw
Anions	50.9	meq/L				Calculation	02/21/08 09:59 / sw
Cations	51.6	meq/L				Calculation	02/21/08 09:59 / sw
Solids, Total Dissolved Calculated	3240	mg/L				Calculation	02/21/08 09:59 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/21/08 09:59 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/31/08 03:06 / jlr
Bromoform	ND	ug/L		0.50		E624	01/31/08 03:06 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/31/08 03:06 / jlr
Chloroform	ND	ug/L		0.50		E624	01/31/08 03:06 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/31/08 03:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	01/31/08 03:06 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	01/31/08 03:06 / jlr
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		E624	01/31/08 03:06 / jlr
Surr: Toluene-d8	102	%REC		80-120		E624	01/31/08 03:06 / jlr

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

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-017
 Client Sample ID: RW-11

Report Date: 04/02/08
 Collection Date: 01/23/08 09:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO ₃	268	mg/L		1		A2320 B	01/28/08 18:32 / bas
Calcium	545	mg/L	D	0.8		E200.7	02/13/08 16:06 / cp
Chloride	45	mg/L	D	4		E200.7	02/13/08 16:06 / cp
Magnesium	219	mg/L		0.5		E200.7	02/13/08 20:33 / cp
Nitrogen, Ammonia as N	5.8	mg/L	D	0.1		A4500-NH ₃ G	01/28/08 12:58 / jal
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	01/29/08 11:34 / jal
Potassium	10.5	mg/L		0.5		E200.7	02/13/08 20:33 / cp
Sodium	107	mg/L		0.5		E200.7	02/13/08 20:33 / cp
Sulfate	2220	mg/L	D	2		E200.7	02/13/08 16:06 / cp
PHYSICAL PROPERTIES							
pH	6.57	s.u.		0.01		A4500-H B	01/29/08 11:33 / bas
Solids, Total Dissolved TDS @ 180 C	3640	mg/L		10		A2540 C	01/28/08 15:02 / dd
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	02/08/08 01:59 / ts
Beryllium	ND	mg/L		0.01		E200.8	02/08/08 01:59 / ts
Cadmium	ND	mg/L		0.005		E200.8	02/08/08 01:59 / ts
Cobalt	0.15	mg/L		0.01		E200.8	02/08/08 01:59 / ts
Lead	ND	mg/L		0.05		E200.8	02/08/08 01:59 / ts
Manganese	4.83	mg/L		0.01		E200.8	02/08/08 01:59 / ts
Molybdenum	0.2	mg/L		0.1		E200.8	02/08/08 01:59 / ts
Nickel	0.18	mg/L		0.05		E200.8	02/08/08 01:59 / ts
Uranium	0.131	mg/L		0.0003		E200.8	02/08/08 01:59 / ts
Vanadium	ND	mg/L		0.1		E200.8	02/08/08 01:59 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		A3114 B	01/30/08 15:20 / rw
Selenium-IV	ND	mg/L		0.001		A3114 B	01/29/08 16:53 / rw
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	14.2	pCi/L		1.0		E900.1	02/11/08 14:15 / crw
Gross Alpha minus Rn & U Precision (±)	1.2	pCi/L				E900.1	02/11/08 14:15 / crw
Lead 210	ND	pCi/L		1.0		E909.0M	01/30/08 09:35 / dm
Radium 226	12.4	pCi/L		0.2		E903.0	02/06/08 08:46 / taj
Radium 226 precision (±)	1.3	pCi/L				E903.0	02/06/08 08:46 / taj
Radium 228	16.6	pCi/L		1.0		RA-05	02/01/08 10:06 / plj
Radium 228 precision (±)	1.5	pCi/L				RA-05	02/01/08 10:06 / plj
Thorium 230	ND	pCi/L		0.2		E907.0	01/29/08 13:00 / dmf

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
 Project: Zone 3
 Lab ID: C08011074-017
 Client Sample ID: RW-11

Report Date: 04/02/08
 Collection Date: 01/23/08 09:30
 Date Received: 01/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	-0.927	%				Calculation	02/21/08 09:59 / sw
Anions	51.9	meq/L				Calculation	02/21/08 09:59 / sw
Cations	50.9	meq/L				Calculation	02/21/08 09:59 / sw
Solids, Total Dissolved Calculated	3280	mg/L				Calculation	02/21/08 09:59 / sw
TDS Balance (0.80 - 1.20)	1.11	dec. %				Calculation	02/21/08 09:59 / sw
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/31/08 03:44 / jlr
Bromoform	ND	ug/L		0.50		E624	01/31/08 03:44 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/31/08 03:44 / jlr
Chloroform	ND	ug/L		0.50		E624	01/31/08 03:44 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/31/08 03:44 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		E624	01/31/08 03:44 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/31/08 03:44 / jlr
Surr: p-Bromofluorobenzene	94.0	%REC		80-120		E624	01/31/08 03:44 / jlr
Surr: Toluene-d8	101	%REC		80-120		E624	01/31/08 03:44 / jlr

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

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

**SEMI-ANNUAL
EFFLUENT AND ENVIRONMENTAL MONITORING REPORT**

JANUARY TO JUNE OF 2008

AVAILABLE MONITORING DATA

- **ENVIRONMENTAL INSPECTION REPORT (continued this procedure to show and maintain the integrity of the tailings area).**
- **GROUND WATER RESULT (GW-3 well reported in accordance to Regulatory Guide 4.14 format).**

ENVIRONMENTAL INSPECTION REPORTS

ENVIRONMENTAL INSPECTION

DATE: 1-24-08

TIME START: 1400

INSPECTOR: Mal Chivalley Jr.

TIME END: 1505

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u>_____</u>	<u>_____</u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u>_____</u>	<u>_____</u>
4. Locked Gates	<u>✓</u>	<u>_____</u>	<u>_____</u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 2-29-08

TIME START: 0900

INSPECTOR: Map Chivally J.

TIME END: 0946

TAILINGS AREA:

	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u>_____</u>	<u>_____</u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u>_____</u>	<u>_____</u>
4. Locked Gates	<u>✓</u>	<u>_____</u>	<u>_____</u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 3-31-08

TIME START: 0905

INSPECTOR: Mal Chisallby

TIME END: 1030

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 4-29-08

TIME START: 1055

INSPECTOR: Max Chivally Jr.

TIME END: 1200

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 5-29-08

TIME START: 1100

INSPECTOR: Mal Chrochly

TIME END: 1235

TAILINGS AREA:

	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 6-23-08

TIME START: 1005

INSPECTOR: Max Chasidly

TIME END: 1140

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u>_____</u>	<u>_____</u>
2. Air Monitors	<u>NA</u>	<u>NA</u>	<u>Under RWP</u>
3. Radiation Warning Signs	<u>✓</u>	<u>_____</u>	<u>_____</u>
4. Locked Gates	<u>✓</u>	<u>_____</u>	<u>_____</u>

ACTION TAKEN: _____

GROUNDWATER RESULTS

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u> <u>μci/ml</u>	<u>LLD</u> <u>μci/ml</u>
				<u>Mg/l</u>	<u>μci/ml</u>		
<u>01/15/08</u>	<u>GW-3</u>	<u>GROUND</u>	U-Nat (dissolved) or total		<u>8.33E-08</u>		<u>2.00E-10</u>
<u>1st-Qr.</u>		<u>WATER WELL</u>	Th-230 (dissolved) or total		<u>2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u>2.00E-10</u>		<u>2.00E-10</u>
			Pb-210 (dissolved) or total		<u>1.00E-09</u>		<u>1.00E-09</u>
			Po-210 (dissolved) or total				<u>1.00E-09</u>

UNC Field Data: PH (STD. Units) = **6.62**
 Cond. (μ MHOS) = **3,820**
 Water Depth (Ft.) = **51.60**
 Temp. (°C) = **9.5**

COMMENTS:

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>µci/ml</u>	<u>µci/ml</u>	<u>µci/ml</u>
<u>04/08/08</u>	<u>GW-3</u>	<u>GROUND</u>	U-Nat (dissolved) or total		<u>8.80E-08</u>		<u>2.00E-10</u>
<u>2nd-Qr.</u>		<u>WATER WELL</u>	Th-230 (dissolved) or total		<u>*2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u>*2.00E-10</u>		<u>2.00E-10</u>
			Pb-210 (dissolved) or total		<u>*1.00E-09</u>		<u>1.00E-09</u>
			Po-210 (dissolved) or total				<u>1.00E-09</u>

UNC Field Data: PH (STD. Units) = **6.56**
 Cond. (µ MHOS) = **5,080**
 Water Depth (Ft.) = **51.45**
 Temp. (°C) = **12.6**

COMMENTS:

* Not detected at minimum detectable concentration.
